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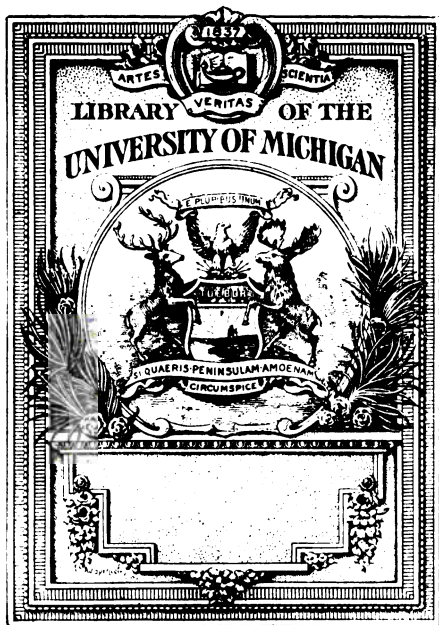
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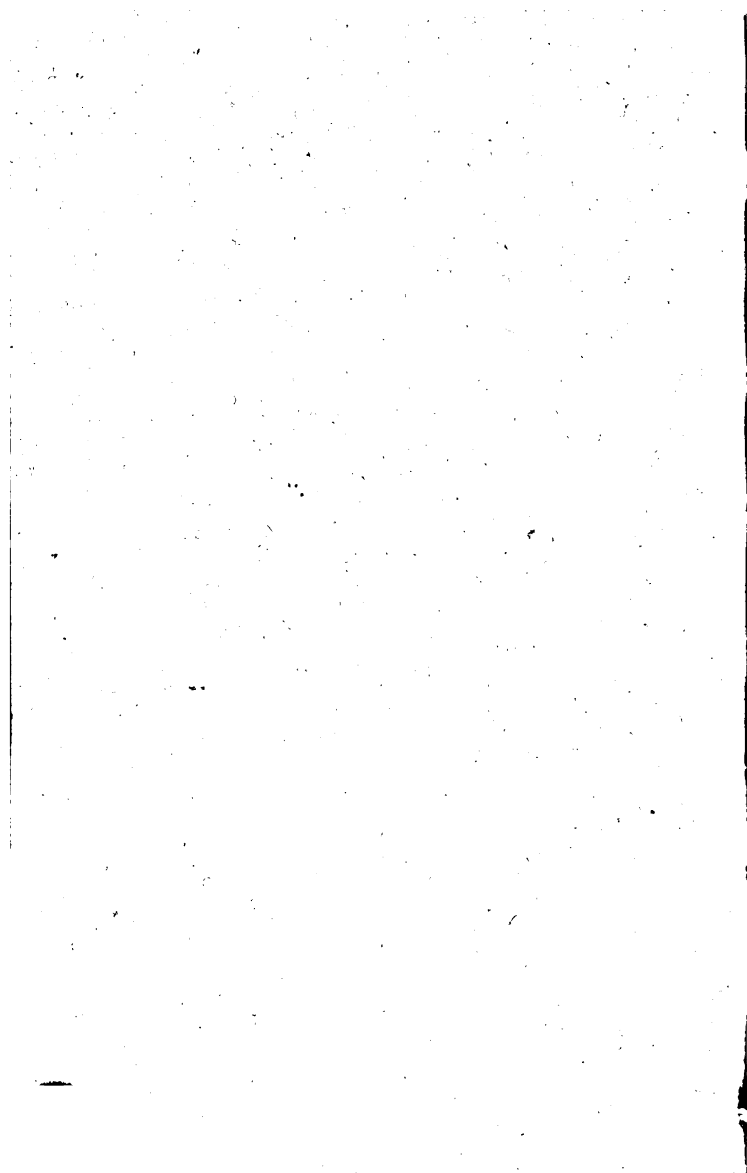


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EGG ROCK FROM THE NAHANT SHORE

A POCKET LIST
OF THE
Birds of Eastern Massachusetts

WITH ESPECIAL REFERENCE TO

ESSEX COUNTY

BY

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PREFACE.

This List of the Birds of Eastern Massachusetts has been prepared at the request of the Museum Committee of the Peabody Academy of Science with the intention of encouraging a legitimate popular interest in an exceedingly attractive and economically valuable group of the local fauna. Of the species mentioned in the List all but about fifty have been recorded from Essex County and a very large proportion of them are on exhibition in the Museum, where they may be seen daily by everyone interested.

It is very much desired to obtain for the Museum as complete a representation as possible of the native fauna and it is hoped that all persons having an opportunity to secure local examples of species not in its collection, will aid in so doing. Records of species new to the Essex County fauna or to the district treated in this List will also be welcomed by the author.

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INTRODUCTION.

The purpose of this little work is to provide the bird-student in eastern Massachusetts with a handy pocket reminder of "what, when, and where" to seek. To this end the booklet is made as compact as possible, with sufficient blank space for brief notes, and follows the general plan of a previous one by the same author (Annotated List of Birds of Wellesley and vicinity) covering a much smaller area.

Its field is all of Massachusetts east of the lowlands along the Connecticut River, including Worcester county and all that part of the State east there-of, the off-shore islands and the coastal waters. It is prepared, however, with particular reference to the local records and other features of especial interest to residents, temporary or permanent, of the county of Essex.

This is not the place for a detailed discussion of the avifauna of the district as a whole or that of Essex county in particular. For such, the student should consult Howe and Allen's "Birds of Massachusetts" and Townsend's "Birds of Essex County" respectively. A few brief statements, however, are permissible.

As will be readily appreciated, the district as a whole is by no means a homogeneous one. Three general subdivisions may be recognized: (1) the immediate sea-shore, with its wealth of marine and coastwise water-birds; (2) the main mass of the land area, lying in the lower transition life zone, its southern part showing distinct austral tendencies; and (3) the highlands of Worcester county in the northern and western part (Princeton, Winchendon, etc.), culminating in Mt. Wachusett (2018 feet), and char-

acterized by a distinctly more boreal facies. This boreal element is also found in the cold bogs and swamps of the lower levels to the eastward.

Placed as it is on the shore of the North Atlantic Ocean, with the long arm of Cape Cod and the neighboring islands reaching far out into the sea, an exceptional number of sea and shore birds might confidently be expected; while the mainland part of the district, lying adjacent to the coast, naturally becomes an important migration route for the land birds. The sea also acts as a barrier to limit the eastward flight of wanderers from the West, South and North. These facts, combined with the populous character of the district, which probably contains a larger number of people interested in bird life, either as sportsmen, students, or nature-lovers, than any district of equal size in the country in proportion its population, naturally result in a very full and general knowledge of the native bird life of the district, and the speedy detection of wanderers whenever they appear.

Essex County, with its coastal waters, shares the characteristics of the district as a whole in a marked degree, though lacking any elevation of special note. The county is of particular interest ornithologically for being the scene of the discovery of the Ipswich Sparrow, a bird with exceptionally interesting geographical distribution. The county also forms apparently the northeastern limit of the breeding range of several species, e. g., the Long-billed Marsh Wren, Orchard Oriole, and Yellow-breasted Chat. For a full treatment of the ornithological features of the county, the reader should consult the work previously cited.

The List contains 390 species and subspecies. Of these three are probably or certainly extinct; several more are extirpated; three are believed to be hybrids; five or six are known or believed to have been introduced; of about

375 remaining, 165 are popularly distinguished as water-birds and 210 are land-birds. Of these, 29 water-birds and 37 land-birds are accidental wanderers from various points of the compass, chiefly from the West and South; 30 more are of decided rarity, leaving about 280 species of somewhat regular occurrence, of which about three-sevenths are water-birds, a relatively large proportion due to the coast-wise situation.

For the convenience and better information of the user of the list, the extinct and extirpated species, hybrids or problematical forms, and introduced species which now form an integral part of our avifauna, have been inserted in their systematic places, as nearly as possible.

The sequence of species is that of the checklist of the American Ornithologists' Union, 3rd edition, revised, published in 1910. Under each species is given the checklist number, for easy reference; one or more vernacular names, that standing first being the one adopted by the A. O. U.; the scientific name as given in the checklist, accented for the benefit of those whose memory is short or classical training imperfect; notes relating to numerical abundance and seasonal distribution—whether resident, migrant, or otherwise; the dates between which the species has been observed here; its preferred haunts; and the location of the nest and time when eggs have been found, if it breeds.

These data have been compiled from a variety of published sources and from considerable personal observation in many parts of the territory covered. The dates of arrival and departure are in the main those given for the State by Dr. G. M. Allen in his New England list published by the Boston Society of Natural History in 1910. These have been modified, however, in numerous instances, with reference to the eastern part of the State, from other sources, notably Mr. William Brewster's "Birds of the Cambridge Region" and Dr. C. W. Townsend's "Birds of Essex County," and from personal and other memoranda.

In explanation of the typography used in connection with the dates it may be well to state that extreme or unusual dates are commonly cut off from the usual by parentheses. Thus "May 5) 10 - 25 (June 8; Aug. 26) Sept. 10 - Oct. 11 (Nov. 3" indicates that while the species usually appears about May 10 in the spring and Sept. 10 in the fall, and disappears by May 25 and Oct. 11, yet individuals have been observed as early as May 5 and Aug. 26, and as late as June 8 and Nov. 8.

The seasonal chart is based on the dates given in the text. To find out what birds may be expected to occur at a given time take the vertical line at the approximate date desired and follow it downward; it will cross the seasonal distribution lines of all species likely to be found here at that time. A dotted seasonal line indicates marked irregularity or uncertainty of occurrence; a continuous one, strong probability or certainty. It should be borne in mind that the dates given are for the entire eastern part of the State. As a rule, dates of arrival during the northward movement will be somewhat (2 - 5 days) later in the northern part of the district (e. g., Essex Co.) than in the southern, and vice versa. In the southward movement, more variability may be expected in dates both of arrival and departure, but especially the latter.

Acknowledgment has already been made at the proper places of indebtedness to certain sources of published information: to these should be added the files of the "Auk." In addition I wish to express my obligations to Dr. C. W. Townsend for several notes and records secured since the publication of his "Birds of Essex County" (accredited to C. W. T. in list); to Mr. H. C. Farwell of Salem for his notes on the Egret at Newbury in 1911; and to Mr. C. R. Lamb for his exceptionally early record of the Shoveler. Above all, my thanks are due to Dr. G. M. Allen for his numerous helpful suggestions and for reading the manuscript.

A word may not be amiss relative to the frontispiece, from a photograph of Egg Rock, taken from the Nahant shore. This rocky islet is of ornithological interest, like many others off our shores, doubtless having acquired its name from being the nesting-site of several species of terns or "Mackerel Gulls." The picture also shows well the rugged character of much of the "North Shore."

LIST OF BIRDS

OF

EASTERN MASSACHUSETTS.

M.—Migrant; R.—Resident; V.—Visitor; S. R.—Summer Resident; W. R.—Winter Resident; etc.

* not recorded from Essex Co.; † extinct species; [] introduced species.

COLYMBIDÆ. GREBES.

2. Holboell's Grebe; Red-Necked Grebe—*Colymbus holboellii* (Reinhardt). Uncommon M. and W. R. coastwise; rare inland. (Sept.) Oct. 10 - May 24. Rivers and lakes, but especially along the seaboard.

3. Horned Grebe; "Devil-diver;" "Hell-diver"—*Colymbus auritus* Linné. Common W. R. coastwise, near rocky shores; scarce M. inland. Oct. 1 - May 6.

6. Pied-billed Grebe; "Dipper"—*Podilymbus podiceps* (Linné). Migrant, rare in spring, common in autumn; rare and local S. R.; accidental in winter. (Feb.) Mar. 1 - Dec. 10. Fresh water—rivers, ponds and swamps. Nest of water-soaked vegetation in shallow water, sometimes floating. Eggs, April 23 - June 28.

GAVIDÆ. LOONS.

7. Loon; Great Northern Diver—*Gavia immer* (Brünnich). Common M. and W. R. coastwise; a few non-breeding birds pass the summer. Scarce M.; formerly and possibly still a local S. R. inland. Sept. 1 - June 5. Seacoast and fresh water lakes. Nest on shore of lake.

9. Black-throated Loon—*Gavia arctica* (Linné). Very rare W. V. from North; doubtfully recorded.

11. Red-throated Loon; Red-throated Diver; "Scape-grace"—*Gavia stellata* (Pontoppidan). Common fall M. and W. R.; uncommon in spring; casual in summer. Aug. 27 - April 8 (July 2. Salt water mainly, rarely on lakes.



ALCIDÆ. AUKS, MURRES, AND PUFFINS.

13. Puffin; "Sea Parrot;" "Paroquet"—*Fratercula arctica arctica* (Linné). Uncommon W. V. off rocky eastern shores. Oct. 16 - Mar.

27. Black Guillemot; "Sea-Pigeon"—*Cépphus grylle* (Linné). Uncommon W. V. off eastern coast, rarely south to Woods Hole. Sept.-April 19 (May). Not uncommon off rocky shores of Cape Ann and Nahant.

***30. Murre; Guillemot**—*Uria troille troille* (Linné). Very rare W. V. off eastern coast.

31. Brünnich's Murre; Murre; Ice-bird—*Uria lomvia* (Linné). Uncommon W. V. coastwise; occasional inland. Nov. 21 - March 15 (April 15). Not uncommon off rocky headlands of Essex Co.

32. Razor-billed Auk; "Tinker;" "Ice-bird"—*Alca torda* Linné. Scarce and irregular W. V. coastwise. Nov. 22 - Feb. 11 (April 15).

†33. Great Auk; Gare-fowl—*Plautus impennis* (Linné). Extinct; formerly a common W. V. coastwise. Its bones have been found in the shell-heaps at Ipswich.

34. Dovekie; Little Auk; Sea Dove—*Alle alle* (Linné). Common W. V. off-shore; sometimes plentiful on the coast, casual inland. (Sept.) Nov. 4 - May 1.

STERCORARIIDÆ. SKUAS AND JAEGERs.

***35. Skua; "Sea-hen"**—*Megaléstris skua* (Brünnich). Rare V. off shore; casual on Georges Bank and Nantucket Shoals. July - Oct.

36. Pomarine Jaeger—*Stercorarius pomarinus* (Temminck). Scarce M. May; July 5 - Sept. 28. Coastwise waters and estuaries.

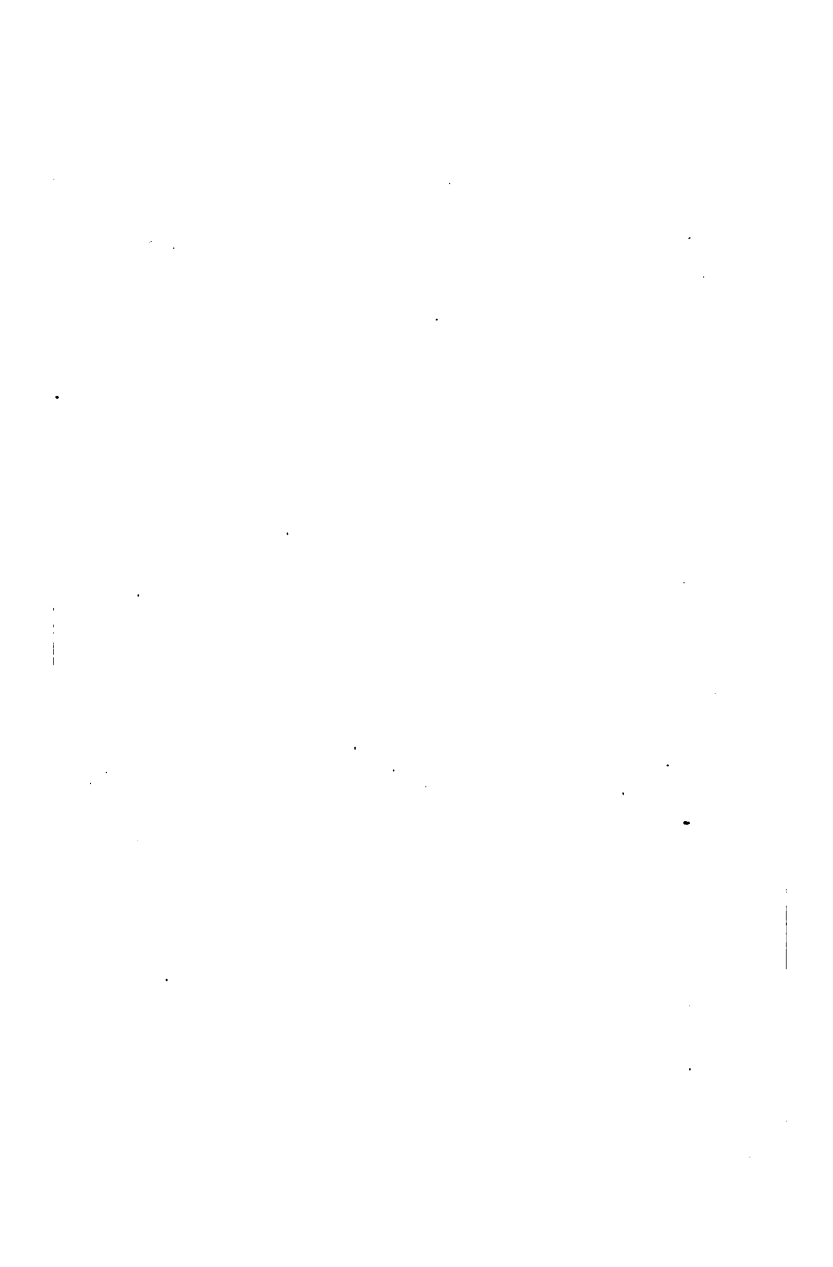
37. Parasitic Jaeger; "Marlinspike;" "Sea-hen;" Robber Gull—*Stercorarius parasiticus* (Linné). Scarce M. and S. V. coastwise; rare in winter. May 31-Oct. 14 (Jan., Feb.). "Common M." in Essex Co.

38. Long-tailed Jaeger—*Stercorarius longicaudus* Vieillot. Rare M. Spring; Aug. 24 - Sept. 29.

LARIDÆ. GULLS AND TERNS.

***39. Ivory Gull**—*Pagóphila álba* (Gunnerus). Accidental W. V. off-shore. Monomoy Id., Dec. 1.

40. Kittiwake; "Pinny Owl;" "Winter Gull."—*Rissa tridactyla tridactyla* (Linné). Common fall M. and



W. R. off-shore; frequent along shore; casual inland. Sept. 6 - Mar. 10.

42. Glaucous Gull; Burgomaster—*Larus hyperboreus* Gunnerus. Rare W. V. coastwise. Nov. 29 - April 23 (Jan. 7 - May 26, Ipswich).

43. Iceland Gull—*Larus leucópterus* Faber. Rare W. V. coastwise. Nov. 4 - April 17.

45. Kumlien's Gull—*Larus kúmlieni* Brewster. Rare W. V. coastwise. Oct. 27 - Mar. 13. Plum Id., Swampscott, Boston, Plymouth.

47. Great Black-backed Gull; "Saddle-back." *Larus marinus* Linné. Common W. R. coastwise; a few pass the summer. Late Aug. - May 1 (summer). Common along the coast and in adjacent inland waters.

51. Herring Gull; "Gray Gull."—*Larus argentatus* Pontoppidan. Abundant M. and W. R. coastwise; less numerous in summer. A useful scavenger of the harbors of the coast and adjacent inland waters.

54. Ring-billed Gull—*Larus delawarensis* Ord. Not uncommon M. coastwise; casual inland. Spring; July 17 - Oct. 30; probably in winter.

58. Laughing Gull—*Larus atricilla* Linné. Rare V. or M. in Essex Co. (a breeding colony in Maine); scarce S. R. south of Cape Cod (Muskeget Id.) May 7 - Oct. (Nov. Eggs, June 7 - July 10).

60. Bonaparte's Gull—*Larus philadelphia* (Ord). Common M. and rare W. R. coastwise; casual on inland waters. Mar. 10 - June 3; July 24 - Nov. 25; winter.

***62. Sabine's Gull; Fork-tailed Gull**—*Xema sabini* (J. Sabine). Casual coastwise M. Aug. - Sept.

63. Gull-billed Tern; Marsh Tern—*Gelochelidon nilótica* (Linné). Accidental from South. One instance: Ipswich, Sept.

64. Caspian Tern—*Sterna caspia* Pallas. Rare spring and not uncommon fall M. coastwise. Early May; Aug. 8 - Sept. 26.

65. Royal Tern—*Sterna máxima* Boddaert. Accidental V. coastwise from South. July; Ipswich, Chatham, Nantucket.

***67. Cabot's Tern**—*Sterna sandvicensis aculeoides* (Cabot). Accidental from South. Aug., Oct. Chatham; Monomoy Id.

69. Forster's Tern—*Sterna fórsteri* Nuttall. Very rare fall M. from West. Aug. - Oct. 2.

70. Common Tern; "Wilson's Tern;" "Mackerel Gull"—*Sterna hirundo* Linné. Abundant M. and locally common S. R. coastwise; casual inland; accidental in winter (Woods Hole, Jan., Feb.). May 1 - Oct. 30 (winter). Breeds on Milk Id., off Cape Ann.

71. Arctic Tern—*Sterna paradisæa* Brünnich. Uncommon local S. R. coastwise (Muskeget Id.); casual inland. May - Oct. In Essex Co. an uncommon M., formerly S. R. at Ipswich dunes and Beverly harbor. Nest on ground.

72. Roseate Tern—*Sterna dougalli* Montagu. Locally common S. R. coastwise in southern Mass. May 1 - Oct. 4. In Essex Co. now a rare migrant (to Sable Id.), formerly S. R. on islets at Beverly and Nahant. Nest on ground. Eggs, May 20 - July 30.

74. Least Tern—*Sterna antillarum* (Lesson). Uncommon S. R. coastwise from Cape Cod south; casual elsewhere. Formerly bred at Ipswich. April 27) May 4 - Oct. Nest on ground. Eggs, May 31 - June 29.

75. Sooty Tern—*Sterna fuscata* Linné. Accidental from South. Lawrence, Oct. 29; Chatham, Sept.

77. Black Tern—*Hydrochelidon nigra surinamensis* (Gmelin). Rare spring and not uncommon fall coastwise V. from West; casual inland. June 7 - 10; (July 11) Aug. 8 - Sept. 26.

RYNCHOPIDÆ. SKIMMERS.

***80. Black Skimmer**—*Rynchops nigra* Linné. Occasional S. V. from South coastwise; casual inland. July 16 - Aug. 19.

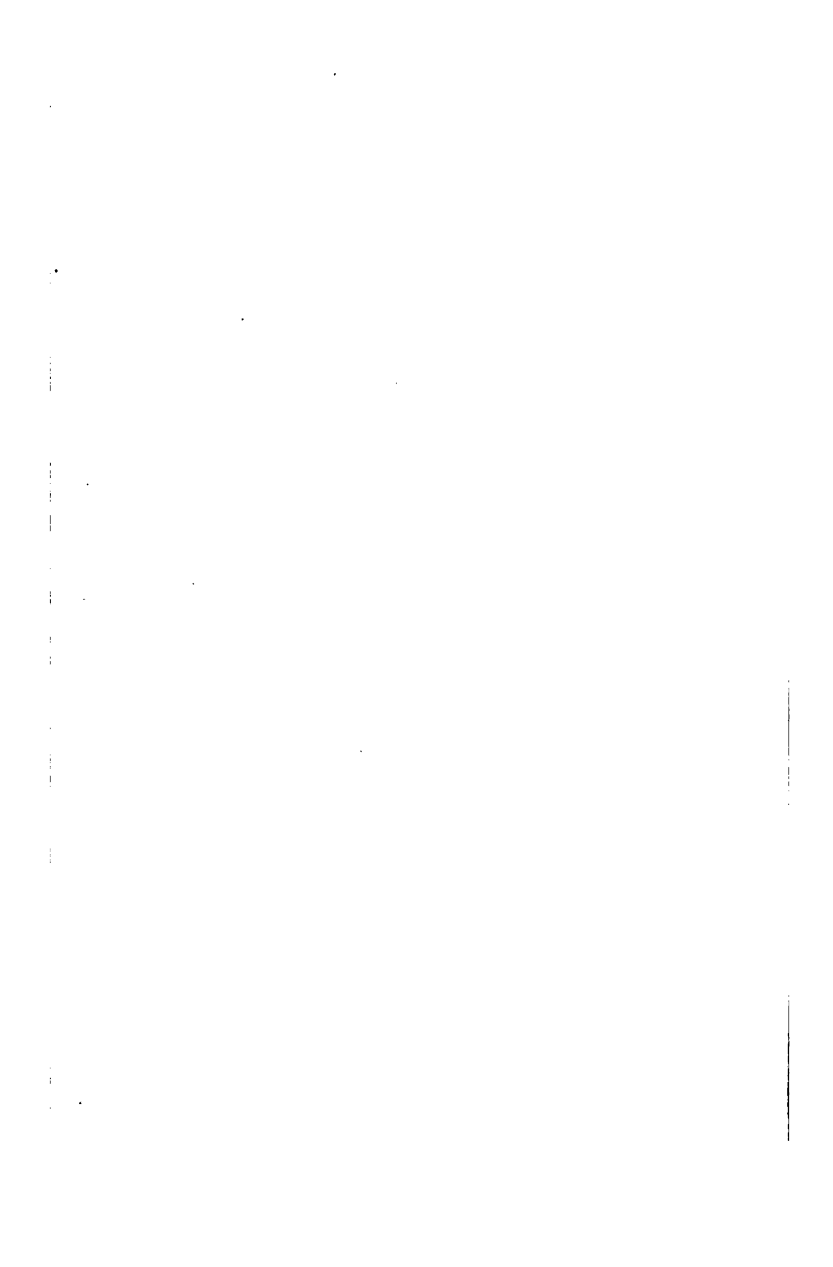
PROCELLARIIDÆ. FULMARS, SHEARWATERS, AND PETRELS.

***86. Fulmar; Noddy**—*Fulmarus glacialis glacialis* (Linné). Rare fall and W. V. from North off-shore. Georges Bank. Oct. 28 - winter.

***88. Cory's Shearwater**—*Puffinus borealis* Cory. Uncommon S. and fall V. off-shore. Aug. 2 - Nov.

89. Greater Shearwater; Hag; Hagdon—*Puffinus gravis* (O'Reilly). Common S. V. off the coast; casual inland. May 26 - Nov.

95. Sooty Shearwater; Black Hag—*Puffinus griseus* (Gmelin). Not uncommon summer and fall V. from Southern Hemisphere off-shore. (Mar.) July - Oct.



106. Leach's Petrel; Mother Carey's Chicken—*Oceanódroma leucórhoa* (Vieillot). Common M. off-shore; occasional inland on lakes in fall. (Breeds on Maine coast.) June 21; Sept. 1 - Nov. 25.

109. Wilson's Petrel; Mother Carey's Chicken—*Oceanites ocednicus* (Kuhl). Common S. V. off-shore from Southern Hemisphere. June 17 - Sept. 23. Rarely approaches land. (Breeds on Antarctic islands.)

SULIDÆ. GANNETS.

***115. Booby; Booby Gannet**—*Sula leucogástra* (Boddaert). Accidental from South. Cape Cod. Sept.

117. Gannet; Solan Goose—*Sula bassána* (Linné). Common M. coastwise, especially in fall. Mar. 26 - June 7; Aug. 3 - Dec. 21.

PHALACROCORACIDÆ. CORMORANTS.

119. Cormorant; Shag—*Phalacrocorax cárbo* (Linné). Uncommon M. and rare W. R. coastwise. April - May 14; Sept. 22 - Nov. (winter). Salt water mainly.

120. Double-crested Cormorant—*Phalacrocorax auritus auritus* (Lesson). Common M. coastwise, casual inland. April 4 - June 18 (July 7; Aug. 22 - Nov. 24.

PELECANIDÆ. PELICANS.

125. White Pelican—*Pelecánus erythrorhynchos* Gmelin. Accidental from South. May; Oct. Gloucester, N. Scituate, Sandwich.

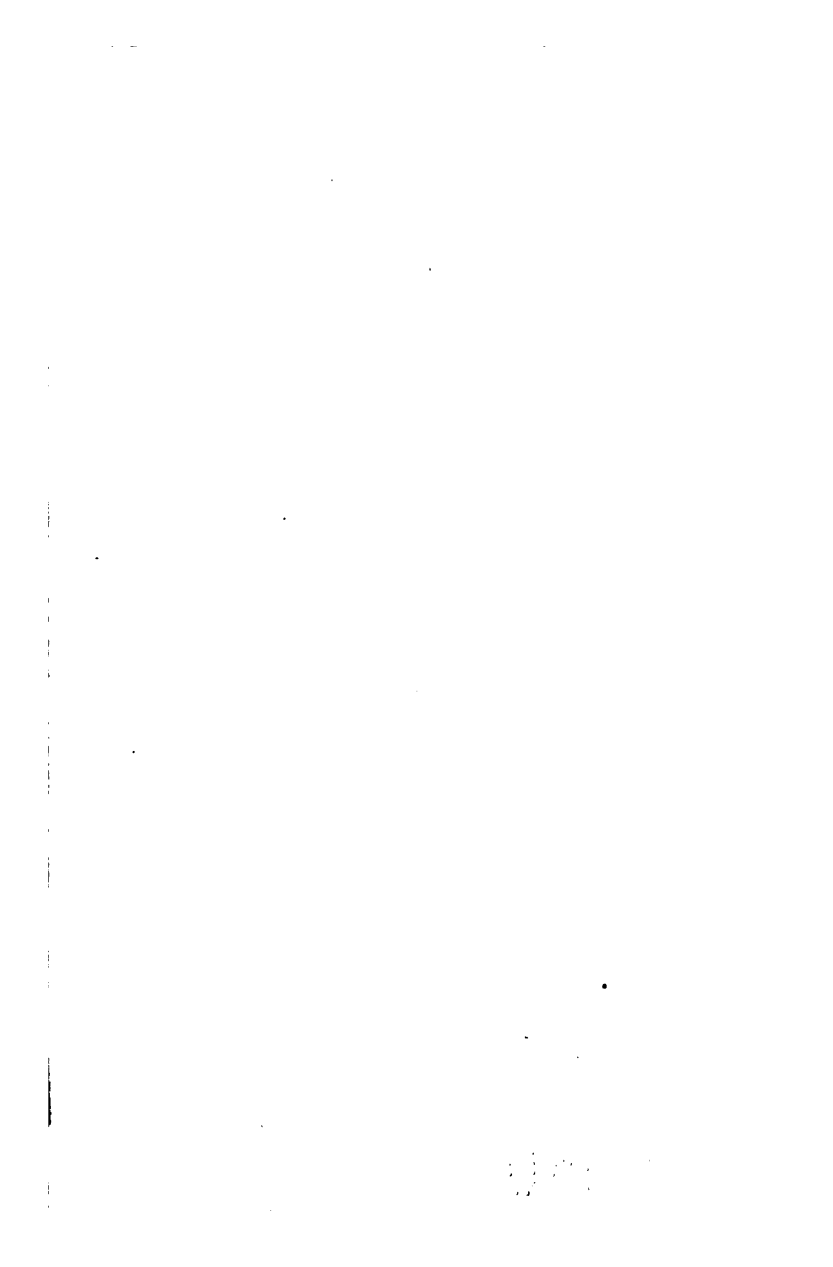
***126. Brown Pelican**—*Pelecanus occidentális* Linné. Accidental from South, coastwise. Nantucket, about 1867 (Ipswich?).

FREGATIDÆ. FRIGATE-BIRDS.

***128. Man-o'-war-bird; Frigate-bird**—*Fregáta aquila* (Linné). Accidental from South, coastwise. Autumn.

ANATIDÆ. DUCKS, GEESE, AND SWANS.

129. Merganser; Goosander; Pond Sheldrake—*Mergus americanus* Cassin. Not uncommon M. and frequent W. R.; most plentiful in spring. Oct. 12 - May (summer). Frequents especially the freshwater lakes and larger streams but is also found in small numbers at river-mouths along-shore in salt water.



130. Red-breasted Merganser—*Mergus serrator* Linné. Abundant M. and common W. R. coastwise; casual inland; a few spend the summer off-shore. Sept. 23) Oct. 7 - Dec.; winter; Mar. - May 1 (20; summer. Chiefly in salt water.

131. Hooded Merganser—*Lophodytes cucullatus* (Linné). Scarce M. Mar. 18 - April 18; Aug. 11) Oct. 7 - Nov. 30 (Dec. 22. Fresh water mainly, often in small streams. Said to be decreasing in numbers.

132. Mallard—*Anas platyrynchos* Linné. In Essex Co. an uncommon and irregular M. and rare W. R.; more common in southeastern part of the State. Mar. - May 1; Sept. 22 - Dec. (Jan.). Rivers, ponds, and sea-coast.

133. Black Duck; Dusky Duck—*Anas rubripes* Brewster. Common, sometimes abundant, M. and W. R. coastwise; common but local S. R. inland. Breeds in Essex Co. Nest on ground in grassy marshes. Eggs, April 19 - May. Frequents both salt and fresh water; in spring and summer the salt marshes at night, fresh marshes by day; in winter often roosts upon the sea-beach.

135. Gadwall; Gray Duck—*Chaulelasmus streperus* (Linné). Rare M. [Mar. - May] Oct. 2 - Nov. 1. Fresh and salt waters.

136. European Widgeon—*Maréca penélope* (Linné). Accidental from Europe. Several records for the State. Oct.; Dec.

137. Baldpate; American Widgeon—*Mareca americana* (Gmelin). Uncommon M. and rare W. R. Mar. 22 - April 7; Sept. 6 - Dec. 2 (winter). Salt and fresh water, especially ponds.

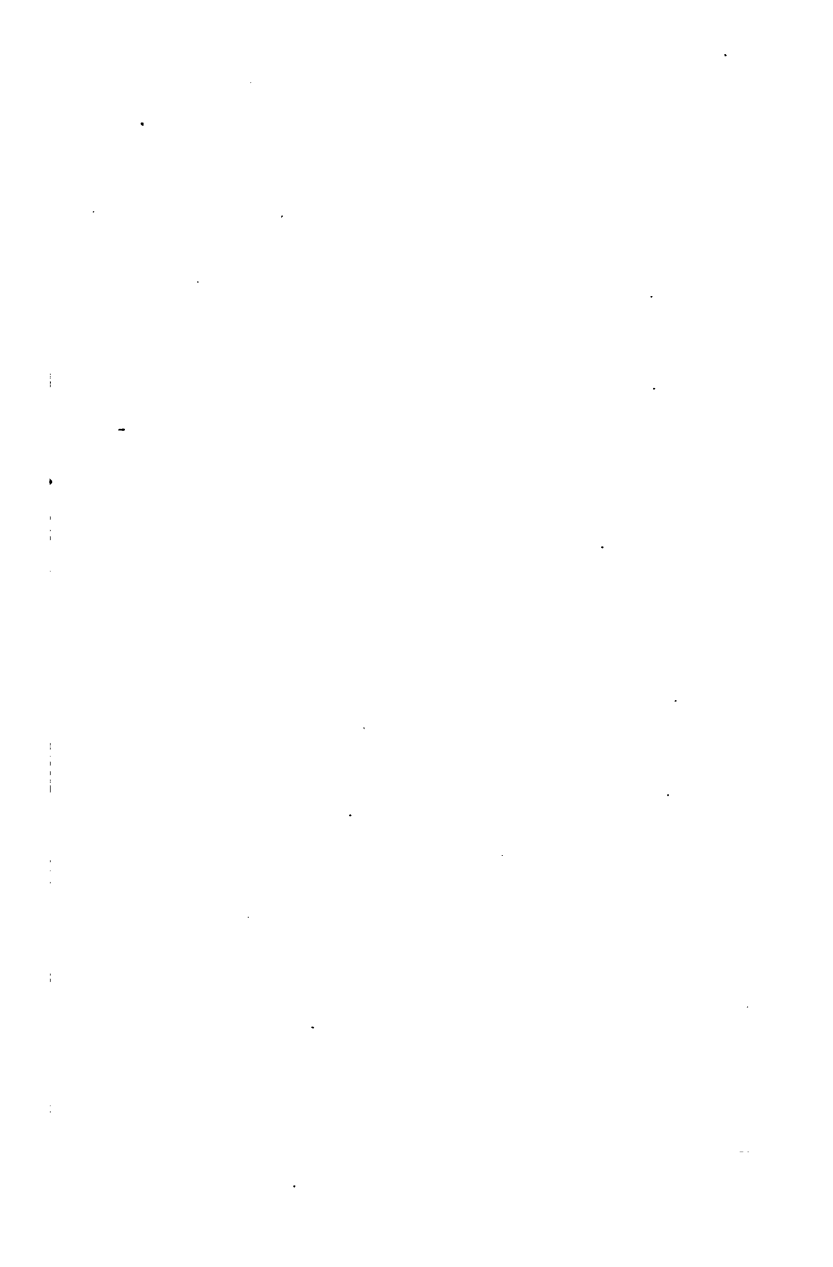
***138. European Teal**—*Nettion crecca* (Linné). Accidental from Europe. Feb., Mar. [April, Me.; Nov., Conn.]. Fresh water marshes.

139. Green-winged Teal—*Nettion carolinense* (Gmelin). Uncommon spring and rare fall M.; accidental in winter. April 4 - 23; Sept. 6 - Dec. 13. Fresh and salt water.

140. Blue-winged Teal—*Querquedula discors* (Linné). Rare spring and common fall M. April 11 - May 31 (June); Aug. 16 - Nov. 26. Fresh and salt water, especially smaller ponds and mud-holes.

142. Shoveller; Spoonbill—*Spátula clypeata* (Linné). Rare M. Spring; Sept. 4) 16 - Nov. 7. Fresh and salt water. Newbury, Sept. 4, 1908, O. R. Lamb.





143. Pintail; "Sprigtail;" "Gray Duck"—*Dafila acuta* (Linné). Uncommon M., rare in spring. Feb.) Mar. 8 - April 3; Sept. 11 - Dec. 21. Fresh and salt water.

144. Wood Duck; Summer Duck—*Aix sponsa* (Linné). Uncommon M. and rare S. R., accidental in winter. Diminishing in numbers. Mar. 10) 20 - April 30; summer; Sept. 15 - Nov. 18 (winter). Freshwater streams and ponds. Nest in hollow tree, rarely on ground. Eggs, April 23 - May 10.

146. Redhead. *Marila americana* (Eyton). Rare M., more frequent in autumn; and rare W. R. on south coast, apparently increasing in numbers. Mar. 6 - April 3; Oct. 4 - Dec. 21 (winter). Fresh and salt water.

147. Canvas-back—*Marila valisineria* (Wilson). Rare M.; common and increasing in numbers at Marthas Vineyard. Mar. 11 - 31; Oct. 19 - Dec. 18 (Jan.). Fresh and salt water, but especially in ponds containing wild celery (*Valisneria*.)

148. Scaup Duck; Greater Scaup; "Blue-bill;" "Widgeon"—*Marila marila* (Linné). Rare spring and common fall M.; local W. R. Mar. 27 - May 1; Sept. 18 - Dec. 26; winter. Fresh and salt water.

149. Lesser Scaup Duck; "Little Bluebill." *Marila affinis* (Eyton). Rare spring and common fall M.; rare W. R. on south coast. Mar. 2 - April 14 (May); Oct. 8 - Dec. 6 (winter). Salt and fresh water, the latter more frequently.

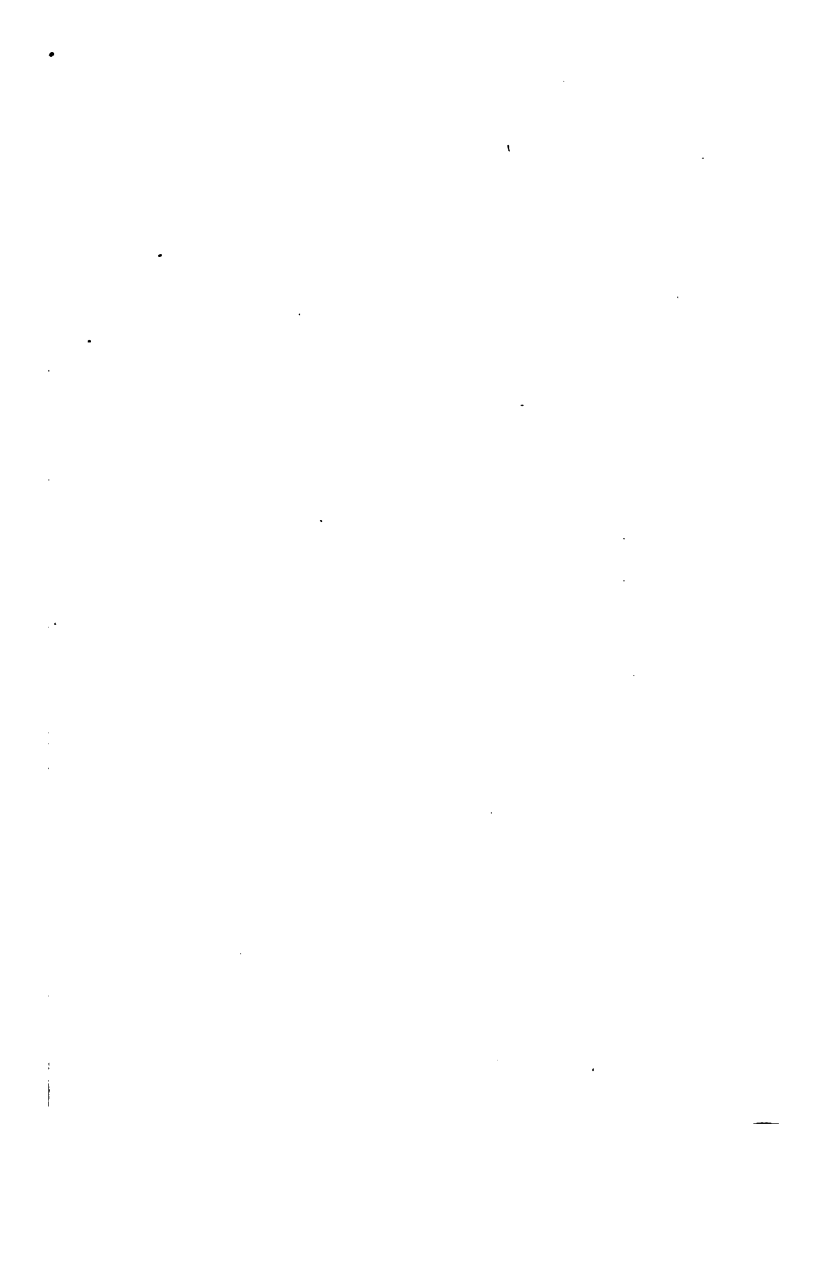
150. Ring-necked Duck—*Marila collaris* (Donovan). Rare M. Mar. - April; Oct. 4 - Nov. 30. There are now several records for Essex Co. Fresh and salt water,

151. Golden-eye; Whistler—*Clangula clangula americana* Bonaparte. Common M. and W. R., chiefly coastwise. Oct. 8 - May 1 (summer). Fresh and salt water; often in rivers and creeks of salt marshes by day, going out to sea at night.

152. Barrow's Golden-eye—*Clangula islandica* (Gmelin). Rare W. V. coastwise. Dec. 7 - Feb. 22.

153. Buffle-head; "Dipper"—*Charitonetta albicollis* (Linné). Uncommon M. and rare W. R. Mar. 11 - April 8; Oct. 9 - Dec. 23 (winter). Fresh and salt water.

154. Old-Squaw; Long-tailed Duck; Old Wife—*Harélda hyemalis* (Linné). Common, often abundant M. and W. R., rare inland. Oct. 10 - May 22 (June 17). Salt and fresh water.



155. Harlequin Duck; Lord-and-Lady—*Histrionicus histrionicus* (Linné). Rare W. V. coastwise; casual inland. Nov. 1 - Jan. Salt and fresh water.

†**156. Labrador Duck—*Camptorhynchus labradorius* (Gmelin).** Extinct. Last taken at Swampscott, Sept., 1862. Formerly a common W. V. coastwise. Several specimens are recorded from Essex Co.

***159. Northern Eider; Greenland Eider—*Somateria mollissima borealis* (Brehm).** Very rare W. V. coastwise. Late Oct. - April.

160. Eider; American Eider; Sea Duck; "Canvas-back"—*Somateria dresseri* Sharpe. Uncommon M. and W. R. coastwise, decreasing in numbers. Nov. 5 - April 19. Salt water. A flock is said to be found every winter off Milk Id. at the end of Cape Ann.

162. King Eider—*Somateria spectabilis* (Linné). Rare W. V. coastwise. Oct. 21 - April 5.

163. Scoter; American Scoter; Black Scoter; Black Coot—*Oidemia americana* Swainson. Common, at times abundant, M. and W. R. coastwise; scarce inland; a few off-shore in summer. Sept. 8 - May 24 (summer). Salt water mainly.

165. White-winged Scoter; White-winged Coot—*Oidemia deglandi* Bonaparte. Common M. and W. R. mainly coastwise; a few in summer off-shore. Sept. 6 - May 25 (summer).

166. Surf Scoter; "Skunk Bird;" Gray Coot—*Oidemia perspicillata* (Linné). Common, often abundant M., and common W. R. coastwise; a few in summer off-shore. Sept. 4 - May 9 (summer). Salt and fresh water, rare inland.

167. Ruddy Duck—*Erismatura jamaicensis* (Gmelin) Common M., very rare S. R. (Cape Cod). Mar. 20 - (summer). Sept. 30 - Dec. (Jan.). Chiefly on deeper fresh-water ponds.

***168. Masked Duck—*Nomonyx dominicus* (Linné).** Accidental from West Indies. Malden, Aug. 22, 1889.

169. Snow Goose; Lesser Snow Goose—*Chen hyperboreus hyperboreus* (Pallas). Rare M. April 13, Oct. 15, Nov. 21. Salt and fresh water.

***169a. Greater Snow Goose. *Chen hyperboreus nivalis* (J. R. Forster).** Accidental V. in spring and fall. [? Flock of 30 at Framingham, Nov. 19, 1909 - Auk, Jan. 1910.]

170. Blue Goose—*Chen caerulescens* (Linné). Rare fall M. West Gloucester, Oct. 20, 1876.

171a. White-fronted Goose—*Anser albifrons gambeli* Hartlaub. Accidental M. from West. Ipswich, Aug. 1907; Plymouth, Nov. 26.

172. Canada Goose; Wild Goose—*Branta canadensis canadensis* (Linné). Common M.; possibly W. R. on south coast. Mar. 8 - June 5; Sept. 21 - Dec. 30 (Jan.). Fresh and salt water.

***172a. Hutchins's Goose**—*Branta canadensis hutchinsi* (Richardson). Probably occurs as a rare M.

173a. Brant; White-bellied Brant; Blue Brant—*Branta bernicla glaucogastra* (Brehm.) Common M. coastwise, casual inland; scarce W. R. on south coast. Very irregular in abundance in Essex Co. Mar. 12 - May 17; Sept. 12 - Dec. 12 (winter).

***174. Black Brant**—*Branta nigricans* (Lawrence). Accidental from West. Chatham. Spring.

***175. Barnacle Goose**—*Branta leucopsis* (Bechstein). Accidental from North. Nov.

180. Whistling Swan—*Olor columbianus* (Ord). Rare M.; occasional W. R. at Nantucket. Oct. 16 - Dec. 27 (winter - Mar. 4).

***181. Trumpeter Swan**—*Olor buccinator* (Richardson). Probably occurred formerly as a rare M.

IBIDIDÆ. IBISES.

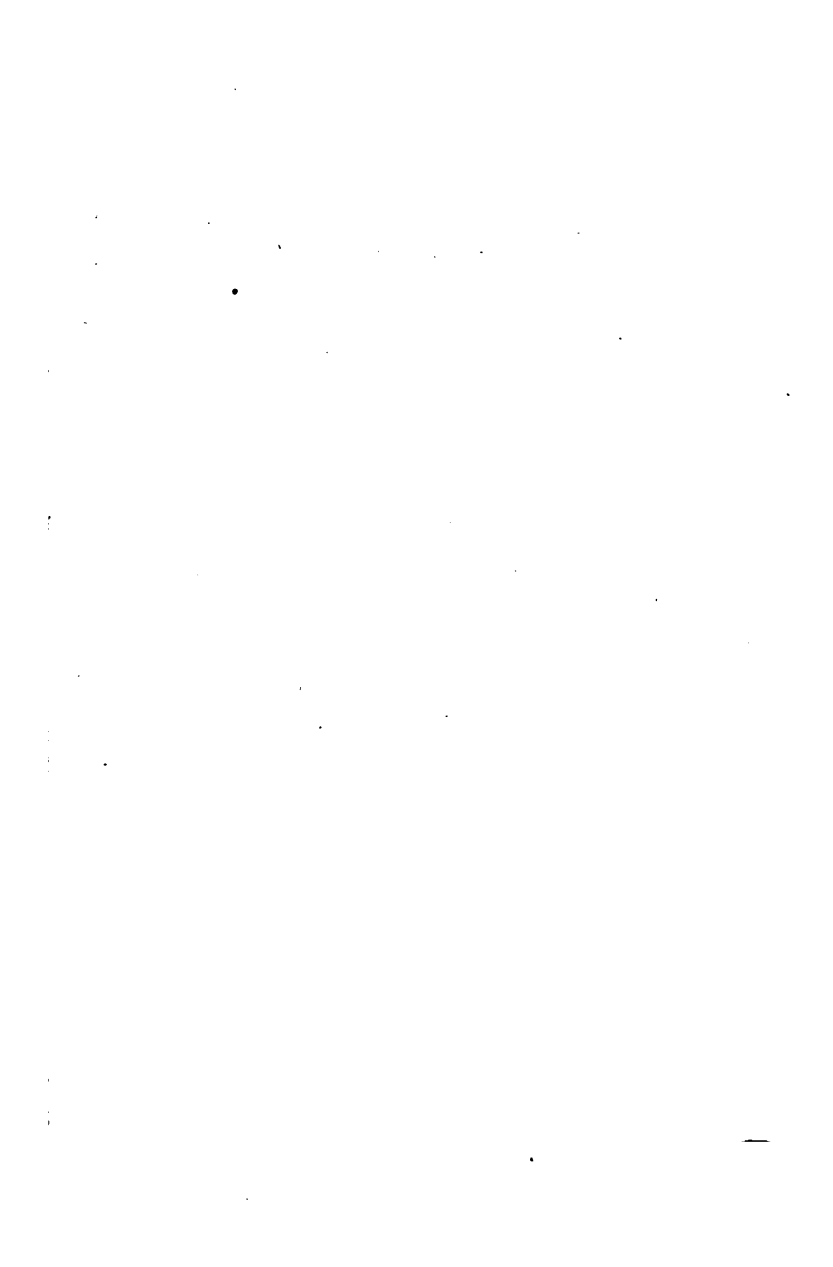
186. Glossy Ibis—*Plégadis autumnalis* (Linné). Accidental from South. May [Oct.]. Marshes, shores of ponds, etc.

CICONIIDÆ. STORKS AND WOOD IBISES.

***188. Wood Ibis**—*Mycteria americana* Linné. Accidental from South. Seekonk, July 17, 1896. ? Georgetown, June 19, 1880. Swamps and marshes.

ARDEIDÆ. HERONS, BITTERNS, ETC.

190. Bittern; American Bittern; Stake-driver—*Botaurus lentiginosus* (Montagu). Common M. and S. R., Mar. 31 - Nov. 26 (Dec., Jan.). Marshes, both salt and fresh, shores of ponds and streams, and open sedgy meadows. Nest on ground, in swamps. Eggs, May 5 - June 10.



191. Least Bittern—*Ixobrychus exilis* (Gmelin). Rare and local S. R., chiefly near coast. Several records for Essex Co. April 15 - Sept. 1. Fresh marshes and swamps. Nest among rushes or in bushes. Eggs, June 1 - 29.

194. Great Blue Heron ; "Crane"—*Ardea herodias herodias* Linné. Common M.; rare in summer and winter. Formerly bred. Mar. 15 - June 4; (summer); July 30 - Dec. 20 (winter). Borders of streams and ponds.

196. Egret ; American Egret—*Herodias egretta* (Gmelin). Occasional summer and fall V. from South. April - Nov. 22. A notable flight occurred in 1911. Several additional records for Essex Co.—C. W. T. Eastham, Plymouth, Marshfield. H. C. Farwell reports pair seen at Newbury July 25 and 28; later, Aug. 1, one seen in company with Blue Herons, and Aug. 27, one caused great commotion in colony of Black-crowned Night Herons in Rowley, being probably one of pair first seen, deprived of its mate, and seeking to fraternize with relatives.

***197. Snowy Egret ; Snowy Heron**—*Egretta candidissima candidissima* (Gmelin). Accidental from South. Swamps and lowlands.

200. Little Blue Heron—*Flórida cœrúlea* (Linné). Very rare wanderer from South. April 14 - Aug.

201. Green Heron ; Little Green Heron—*Butorides virescens virescens* (Linné). Common S. R. April 9) 26 - Oct. 16. Edges of freshwater streams and ponds. Nest in small tree. Eggs, May 10 - June 2.

202. Black-crowned Night Heron ; Quawk—*Nycticorax nycticorax nævius* (Boddaert). Common M. and local S. R.; rare W. R. near coast. Mar. 27 - Nov. 1 (winter). Swamps, marshes, meadows. Nest of twigs in tree, in colonies. Eggs, May 2 - June 13. At least one colony of considerable size in Essex Co.

203. Yellow-crowned Night Heron—*Nyctandassa violácea* (Linné). Accidental from South [April, Me., R. I.] July - Oct. Swamps and marshes.

GRUIDÆ. CRANES.

***204. Whooping Crane**—*Grus americana* (Linné). Extirpated. Probably a migrant in colonial times. Freshwater marshes and open lowlands.

***206. Sandhill Crane**—*Grus mexicana* (Müller). Extirpated. Formerly a Migrant.



RALLIDÆ. RAILS, GALLINULES, AND COOTS.

208. King Rail; Fresh-marsh Hen—*Rallus elegans* Audubon. Occasional V. Possibly breeds. May occur at any season on south shore. Fresh-water marshes. Nest on ground.

211. Clapper Rail; Salt-marsh Hen—*Rallus crepitans* Gmelin. Occasional V. May breed. Ipswich, Oct. 20, 1910. Three records for Essex Co.—C. W. T. Salt-water marshes. Nest on ground.

212. Virginia Rail; Water Hen—*Rallus virginianus* Linné. Common S. R., especially near coast; rare in winter. April 11) 20 - Sept. 25 (Nov. 27. Jan. Fresh and brackish marshes. Nest on ground. Eggs, May 12 - June 1.

214. Sora; Carolina Rail; Meadow-Hen—*Porzana carolina* (Linné). Common M. and local S. R. Mar. 20) April 14 - Nov. 1 (Dec. 20. Fresh and brackish marshes. Nest on ground. Eggs, June 9 - 11.

215. Yellow Rail—*Coturnicops noveboracensis* (Gmelin). Rare M. and possible S. R. April - May 26; Sept. 2 - Oct. 22. Fresh-water marshes. Nest on ground.

216. Black Rail; Little Black Rail—*Crectiscus jamaicensis (Gmelin). Very rare V. and in southeast part a rare S. R. May 16 - Sept. 20. Fresh-water marshes. Nest on ground. Eggs, May.

218. Purple Gallinule—*Ionornis martinicus* (Linné). Casual from South. April (June). Oct. - Nov. Fresh-water marshes.

219. Florida Gallinule—*Gallinula galeata* (Lichtenstein). Rare and local S. R. chiefly near coast. April 29 - Oct. 25 (Nov. 9. Fresh-water marshes. Nest among rushes near ground. Eggs, June 5 - July 17.

221. Coot; American Coot; Mud-hen—*Fulica americana* Gmelin. Rare spring and uncommon fall M.. rare in W. near coast. Mar. 29 - April 25; (June, Aug.) Sept. 3 - Nov. (winter). Fresh-water marshes and ponds; Nest among reeds.

PHALAROPODIDÆ. PHALAROPES.

222. Red Phalarope—*Phalaropus fulicarius* (Linné). Migrant off-shore, sometimes common; rare and irregular V. landward in stress of weather. May 1 - 26; Aug. 31 - Nov. 24. Chiefly swimming or flying off the coast.

223. Northern Phalarope—*Lobipes lobatus* (Linné). Common M. off the coast, not infrequently driven to shore by storms; rarely found inland. May 1 - 26; Aug. 10 - Oct. 18. Chiefly maritime.

224. Wilson's Phalarope—*Stegdnopus tricolor* Vieillot. Accidental from West. Nahant, May 20, 1874. Aug. 18 - 31.

RECURVIROSTRIDÆ. AVOCETS AND STILTS.

225. American Avocet—*Recurvirostra americana* Gmelin. Accidental from West. Ipswich, Sept. 13; Lynn; Natick, Oct. 19. Fresh-water marshes and lowlands.

226. Black-necked Stilt—*Himantopus mexicanus* (Müller). Accidental from West or South. Lynn; Mass. coast. Shores of lagoons and salt-marshes.

SCOLOPACIDÆ. SNIPES, SANDPIPER, ETC.

228. Woodcock; American Woodcock—*Philohela minor* (Gmelin). Common M. and uncommon S. R.; rare in winter. Mar. 4 - Nov. 25 (winter). Damp woods, thickets, and fresh-water swamps. Nest on ground. Eggs, April 5 - May 17.

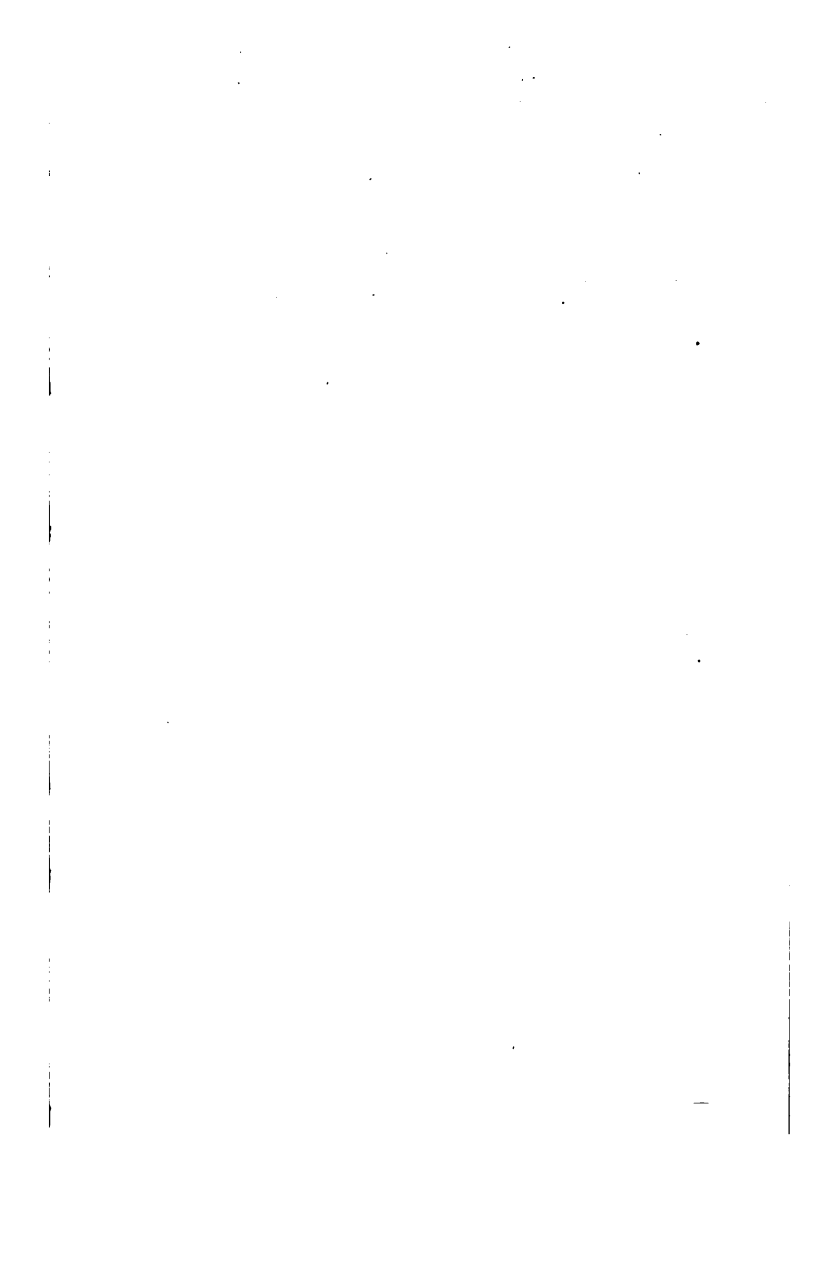
230. Wilson's Snipe—*Gallinago delicata* (Ord). Common M., rare and irregular S. R. and W. R. Mar. 20 - May 18; (summer); Aug. 1 - Nov. 30 (winter). 7 or more seen at Lynn from Nov. 12, '09, to Jan. 22, 1910. Fresh and brackish meadows and marshes. Nest on ground. Eggs, May.

231. Dowitcher; Red-breasted Snipe—*Macrorhamphus griseus griseus* (Gmelin). Coastwise M., rare in spring, uncommon in fall; casual inland. May 1 - June 7 (18; July 5 - Aug. 25 (Sept. 30. Sea and lake shores.

232. Long-billed Dowitcher—*Macrorhamphus griseus scolopaceus* (Say). Accidental fall M. from West. Aug. 29 - Nov. 3. Marshes and mudflats.

233. Stilt Sandpiper—*Micropodlama himantopus* (Bonaparte). Uncommon [? spring and] fall M. coastwise, casual inland. July 19 - Sept. 29. Marshes and mudflats.

234. Knot; "Red-breasted Plover;" "Blue Plover;" "Gray-back"—*Tringa canutus* Linné. Uncommon M. coastwise, casual inland; rare W. R. on Cape Cod. May 11 - June 5 (25); July 13 - Nov. 8 (winter). Sandy beaches.



235. Purple Sandpiper; "Rock Snipe;" "Winter Snipe"—*Arquatella maritima maritima* (Brünnich). Common fall and W. R. coastwise. July 30) Sept. 6 - April 19 (May 11. Rocky sea-shores and islets.

239. Pectoral Sandpiper; "Grass-bird;" "Krieker"—*Pisobia maculata* (Vieillot). Rare spring and common fall M., mainly coastwise. April 4) 9 - May 16 (23; July 15 - Nov. 11. Marshes and mudflats.

240. White-rumped Sandpiper; Bonaparte's Sandpiper; "Bull-peep"—*Pisobia fuscicollis* (Vieillot). Rare spring and common fall M. coastwise. May 15 - June 5; July 10 - Nov. 10. Shores of sea, lakes, and salt-marsh sloughs.

241. Baird's Sandpiper; "Bull-peep"—*Pisobia bairdi* (Coues). Rare fall M. July 27 - Oct. 18. Beaches and marshes.

242. Least Sandpiper; "Peep;" "Mud-peep"—*Pisobia minutilla* (Vieillot). Abundant M. April 18) May 5 - June 7; (summer); July 6 - Sept. 21 (Oct. 13). Marshes and mud-flats.

***243. Dunlin; European Dunlin; "Brant-bird"**—*Pelidna alpina alpina* (Linné). Accidental from Old World. Chatham, Aug. 11. Beaches and marshes.

243a. Red-backed Sandpiper; American Dunlin—*Pelidna alpina sakhalina* (Vieillot). Rare spring and common fall M. coastwise, occasional inland. Mar.) April - May 20 (June 18; Sept. 1 - Dec. 13 (24). Beaches and marshes.

244. Curlew Sandpiper—*Erólia ferruginea* (Brünnich). Accidental from Old World. May; Aug. Sea-beaches and marshes.

246. Semipalmated Sandpiper; "Peep;" "Sand-Peep"—*Ereunetes pusillus* (Linné). Very common M., casual in summer. May 1) 18 - June 14; (summer); July 3 - Oct. 8 (30. Sandy sea-beaches chiefly; occasional inland.

247. Western Sandpiper; Western Semipalmated Sandpiper—*Ereunetes mauri* Cabanis. Rare fall M. July 19 - Sept. 20. Beaches and marshes.

248. Sanderling; Beach-bird; "Whitey;" Beach Plover—*Calidris leucophæa* (Pallas). Very common M. coastwise; occasional inland; south of Cape Cod a casual W. R. April) May 19 - June 4 (24; July 6 - Dec. 6 'winter. Sandy beaches.

249. Marbled Godwit; Brown Marlin—*Limosa fedoa* (Linné). Rare M. May 20-23; July 17-Sept. 5. Marshes and beaches.

251. Hudsonian Godwit; "Black-tail"—*Limosa hæmastica* (Linné). Rare M. (?April 29-May 25); July 15-Nov. 7. Marshes and beaches, chiefly the former.

254. Greater Yellow-legs; Winter Yellow-legs—*Tótanus melanoleucus* (Gmelin). Common M., chiefly coastwise; occasional non-breeding S. R. Mar. 27) April 4-June 16 (28; (summer); July 6-Nov. 12. Marshes, both salt and fresh.

255. Yellow-legs; Lesser Yellow-legs; Summer Yellow-legs—*Tótanus flavipes* (Gmelin). Rare spring, and common early fall M. April 29-June 2 (15); July 10-Sept. 29 (Oct. 30. Marshes, salt and fresh.

256. Solitary Sandpiper—*Helódromus solitarius solitarius* (Wilson). Common M., mainly inland. May 2-26 (June); July 8) 20-Oct. 14 (Nov. 28). Borders of streams and ponds.

258. Willet; Goose-bird; "Humility"—*Catoptrophorus semipalmatus semipalmatus* (Gmelin). Rare coastwise M., perhaps extirpated; formerly a rare S. R. on south shore. May 2-31 (June 17; July 8-Sept. 11. Marshes and beaches, salt and fresh.

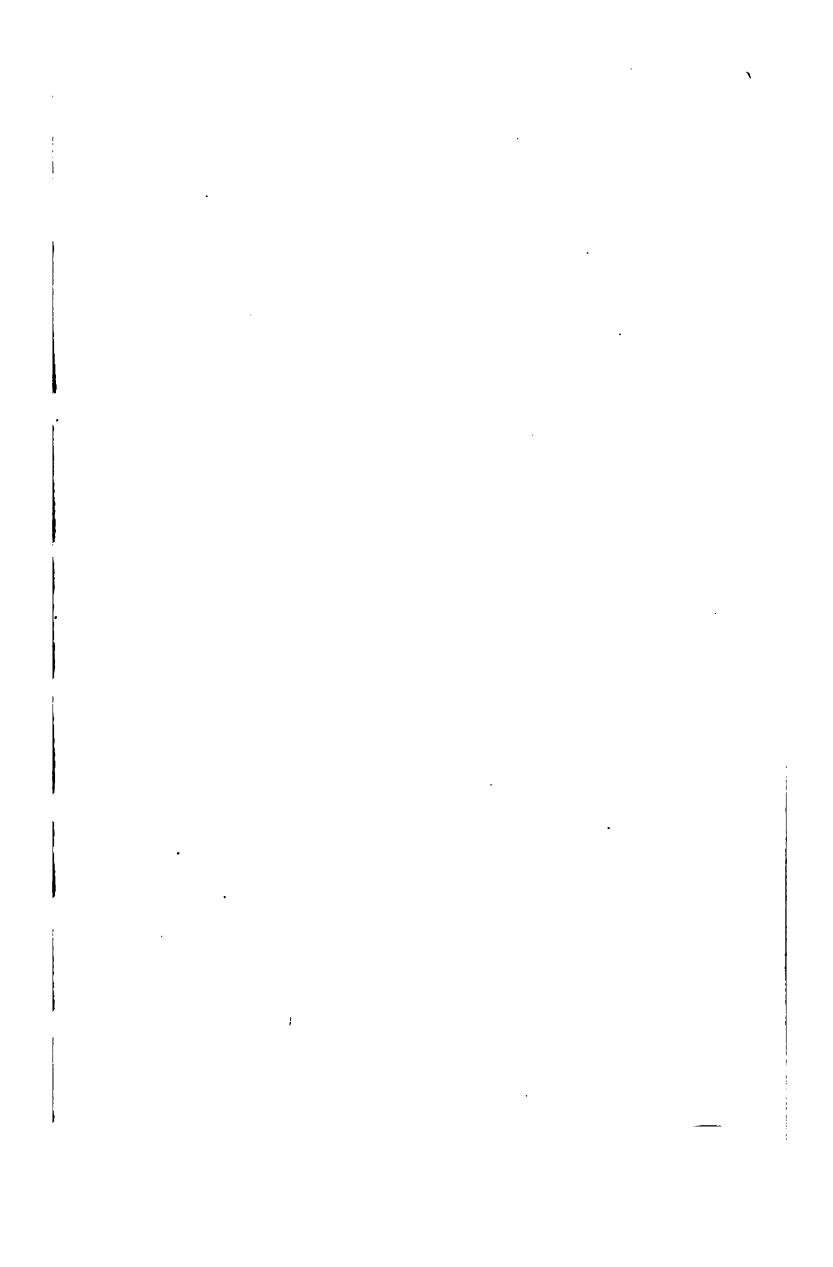
258a. Western Willet—*Catoptrophorus semipalmatus inornatus* (Brewster). Rare fall M. Newburyport, Aug. 5. Marshes and beaches.

260. Ruff—*Machètes pugnax* (Linné). Accidental from Old World, coastwise. May; July; Sept. Newburyport, Chatham, Nantucket. Marshes and beaches.

261. Upland Plover; Bartramian Sandpiper—*Bartrámia longicauda* (Bechstein). Rare spring and uncommon fall M.; rare and local S. R. April 3-May 10; summer; July 16-Sept. 14. Grassy pastures and hill-tops, especially near coast. Nest on ground. Eggs, May 25-June 3 (22).

262. Buff-breasted Sandpiper; "Hill Grass-bird"—*Tryngites subruficollis* (Vieillot). Rare fall M. coastwise. July 28-Sept. 24. Grassy hills and marshes.

263. Spotted Sandpiper; "Teeter;" "Tip-up"—*Actitis macularia* (Linné). Common M. and S. R. April 19) 26-Nov. 6 (14. Sea-shore, and borders of fresh-water streams and lakes. Nest on ground. Eggs, May 27-June 6.



264. Long-billed Curlew ; "Sickle-bill ;" "Hen Curlew"—*Numenius americanus* Bechstein. Now an accidental M. [May] July 20 - Oct. 18. Marshes and grassy flats.

265. Hudsonian Curlew—*Numenius hudsonicus* Latham. Rare spring, uncommon fall M. April 10 - May 30 (June 8); June 23) July 6 - Oct. 1. Beaches and marshes.

266. Eskimo Curlew ; Dough-bird—*Numenius borealis* (J. R. Forster). Migrant, accidental in spring, rare in fall; formerly common, now nearly extinct. May; July 15 - Oct. 2. Two at Newburyport, Aug. 27, 1908—C. W. T. Marshes, beaches and grassy uplands.

CHARADRIIDÆ. PLOVERS.

270. Black-bellied Plover ; Beetle-head ; Bull-head—*Squatrola squatarola* (Linné). Common M. coastwise. April 15-June 18 (25). July 8 - Nov. 16 (Dec. Beaches and marshes.

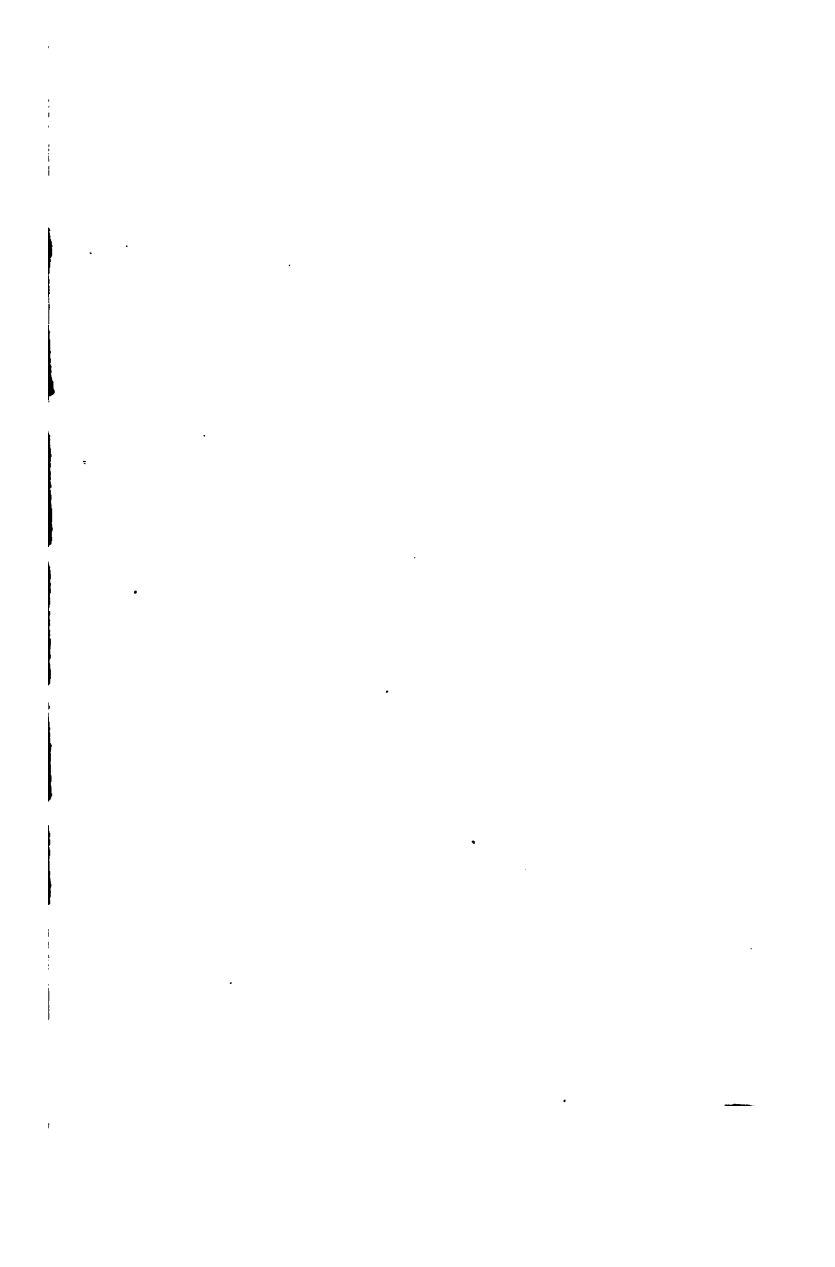
272. Golden Plover ; American Golden Plover ; Green-back ; "Green Plover ;" "Pale Belly" *Charadrius dominicus dominicus* (Müller). Migrant, very rare in spring; now rare, but formerly common in fall, along coast. (May); Aug. 12 - Nov. 2 (25. Plum Id., April 8, 1911. Beaches, marshes, and grassy hill-tops.

273. Killdeer—*Oxyechus vociferus* (Linné). Rare M. and S. R.; accidental in W. Mar. 1 - Dec. 15 (winter). Meadows, fields, marshes, beaches. Nest on ground, in fields. Eggs, May 30.

274. Semipalmated Plover ; Ring-neck—*Aegialitis semipalmata* (Bonaparte). Common M. coastwise, especially in fall; scarce in spring; occasional inland. Late April - June 14 (26); July 12 - Oct. 28. Beaches and marshes.

277. Piping Plover ; Pale Ring-neck—*Aegialitis meloda* (Ord). Uncommon M. and coastwise S. R. Mar. 26) April 5 - Sept. 22. Sandy beaches. Nest on ground. Eggs, May 10 - June 14 (July). (277a. Belted Piping Plover is no longer recognized as distinct.)

280. Wilson's Plover—*Ochthodromus wilsonius* (Ord). Accidental from South. Ipswich, May 8; Plymouth; Aug. 22; sandy beaches and mud-flats.



APHRIZIDÆ. SURF-BIRDS.

283. Turnstone; European Turnstone—Arenaria interpres interpres* (Linné). Accidental from Old World. Monomoy Id., Sept.

283a. Ruddy Turnstone; "Chicken-Plover; "
"Calico-bird"—*Arenaria interpres morinella* (Linné). Uncommon M. May 1 - 31 (June 24; July 25 - Oct. 16. Sea-shores, either sandy or stony.

HÆMATOPODIDÆ. OYSTER-CATCHERS.

286. Oyster-catcher, American Oyster-catcher—Hæmatopus palliatus* Temminck. Accidental from South. Late April; Aug. Sea-coast.

ODONTOPHORIDÆ. BOB-WHITES, QUAILS, ETC.

289. Bob-white; Quail—*Colinus virginianus virginianus* (Linné). Uncommon permanent resident; locally and irregularly plentiful. Nest on ground. Eggs, May - June 30. Weedy and brush-grown fields and scrubby woods.

TETRAONIDÆ. GROUSE, PTARMIGAN, ETC.

298c. Canada Spruce Partridge—*Canachites canadensis canace* (Linné). Accidental from North, Sept., Nov.

300. Ruffed Grouse; "Partridge"—*Bonasa umbellus umbellus* (Linné). Common R. Woods and thickets. Nest on ground in woods. Eggs, April 27 - June 2.

301. Willow Ptarmigan—*Lagopus lagopus lagopus* (Linné). Accidental from North, perhaps an escaped bird. One record. Manchester.

306. Heath Hen—Tympanuchus cupido* (Linné). Resident on Martha's Vineyard; formerly north to Boston and in Conn. valley. Probably occurred in Essex Co. Scrub oak thickets. Nest on ground. Eggs, June 2 - July 24.

[Ring-necked Pheasant—*Phasianus torquatus* Gmelin. Resident. Introduced from Old World as game bird, and well established in many places. Thickets. Nest on ground.]

MELEAGRIDÆ. TURKEYS.

310a. Wild Turkey—*Meleagris gallopavo silvestris* Vieillot. Extirpated. Formerly a common resident.

COLUMBIDÆ. PIGEONS AND DOVES.

†**315. Passenger Pigeon; Wild Pigeon**—*Ectopistes migratorius* (Linné). Extirpated and probably extinct. Formerly an abundant M. and common S. R., rare in winter. Mar. 10-Oct. 21 (winter). Woods and fields. Nest in colonies, in trees. Eggs. May 22.

316. Mourning Dove—*Zenaidura macroura carolinensis* (Linné). Scarce M. and S. R., rare W. R. Frequent in Plymouth Co.; rare in Essex Co. Mar. 5-Nov. 15 (winter). Grain-fields, roads, and weedy fields. Nest in tree, rarely on ground. Eggs, April 19-May 20.

***323. Blue-headed Quail dove**—*Starnænas cyanocephala* (Linné). Accidental from South, probably an escape. One record. Oct.

[**Rock Dove; Domestic Pigeon; Dove; Pigeon**—*Columba domestica* Gmelin. Introduced from Old World as a domesticated bird, but now common in a wild state in many cities and towns. In streets and about buildings. Nest in buildings.]

CATHARTIDÆ. AMERICAN VULTURES.

325. Turkey Vulture; Turkey Buzzard—*Cathartes aura septentrionalis* Wied. Occasional visitor at any season. Three records for Essex Co. and several others for the eastern part of the State.

326. Black Vulture; "Jim Crow"—*Catharista uruba* (Vieillot). Accidental from South. July to Nov. Swampscott; Gloucester.

BUTRONIDÆ. HAWKS, EAGLES, KITES, ETC.

327. Swallow-tailed Kite—*Elanoides forficatus* (Linné). Accidental from West. Sept. West Newbury, 1882.

***328. White-tailed Kite**. *Elañus leucurus* (Vieillot). Accidental from South. One record. Martha's Vineyard, May 30, 1910.

331. Marsh Hawk; Mouse Hawk; Harrier—*Circus hudsonius* (Linné). Common M.; scarce S. R.; rare in winter. Mar. 1-Nov. 29 (winter). Flying low over

fields and marshes, hunting mice and frogs. Nest on ground. Eggs, May 12 - June 8.

332. Sharp-shinned Hawk; "Pigeon Hawk"—*Accipiter velox* (Wilson). Common M., scarce S. R. and W. R. Mar. 10) Apr. 3 - May 11; summer; Sept. 7 - Oct. 25 (Nov. 9; winter. Fields, orchards, woods, and near poultry-yards in chicken time. Nest in tree, usually white pine, in secluded woodland. Eggs, May 3 - June 10.

333. Cooper's Hawk—*Accipiter cooperi* (Bona-parto). Scarce M. and S. R., rare in winter. April 10 - Oct. 20; winter. Haunts and nesting-site same as preceding. Eggs, April 25 - June 11.

334. Goshawk—*Astur atricapillus atricapillus* (Wilson). Late fall and W. V., irregular, sometimes common. Oct. 4 - Feb. 26. Fields; woods; perched on scattered trees in open lands.

337. Red-tailed Hawk; "Hen Hawk"—*Buteo borealis borealis* (Gmelin). Scarce M. and W. R.; rare S. R. Oct. 10 - April 20; summer. Sailing overhead and perched on scattered trees in pastures and wild woodlands. Nest of sticks, in large tree. Eggs, April 6 - 27.

339. Red-shouldered Hawk; "Hen Hawk"—*Buteo lineatus lineatus* (Gmelin). Common M.; less common S. R. and W. R. Haunts and nest like preceding. Eggs, April 8 - June 6.

342. Swainson's Hawk. *Buteo swainsoni* Bona-parto. Rare wanderer from West. April 20 - Nov. 7. Three records for Essex Co.

343. Broad-winged Hawk—*Buteo platypterus* (Vieillot). Scarce M. and rare S. R. in less settled districts. April 12 - Sept. 30 (Oct. 16. Woodlands. Nest in tree. Eggs, May 7 - 31.

347a. Rough-legged Hawk; Black Hawk—*Archibuteo lagopus sancti-johannis* (Gmelin). Rare fall and winter visitor. Oct. - April 13 (May 8. Open country.

349. Golden Eagle—*Aquila chrysaetos* (Linné). Rare visitor at all seasons. Inhabits mountainous country.

352. Bald Eagle; White-headed Eagle—*Haliaeetus leucocephalus leucocephalus* (Linné). Uncommon V. at all seasons, more often seen near coast.

FALCONIDÆ. FALCONS, ETC.

***353. White Gyrfalcon**—*Falco islandus* Brünnich. Accidental from North, if occurring. One doubtful record.



***354a. Gyrfalcon**—*Falco rusticolus gyrfalco* Linné. Very rare W. V. from North. Jan. Feb.

354b. Black Gyrfalcon—*Falco rusticolus obsolétus* Gmelin. Very rare W. V. from North. Oct. - Mar. 11. Four records.

356a. Duck Hawk. *Falco peregrinus anatum* Bonaparte. Rare M. except at times directly on the sea-shore; casual in winter, May 24; Sept. 19 - Oct. 9; winter. Open country, preying on water - and shore-birds.

357. Pigeon Hawk—*Falco columbarius* Linné. Rather common M. and occasional W. R. April 10 - May 16. Sept. 7 - Nov. 24; winter. Open country; isolated trees; woods.

***359.1 Kestrel.** *Falco tinnunculus* Linné. Accidental from Old World. One record. Sept. Nantasket Beach.

360. Sparrow Hawk—*Falco sparverius sparverius* Linné. Scarce M.; not uncommon S. R.; occasional W. R. near coast. Mar. 20 - Nov. 8; winter. On dead trees and branches in fields, clearings and thin woods. Nest in tree-cavity, rarely in building. Eggs, April 27 - May 26.

PANDIONIDÆ. OSPREYS.

364. Osprey; Fish Hawk—*Pandion haliaëtus carolinensis* (Gmelin.) Common M. Mar.) April 2 - May 29; Aug. 26 - Nov. 11. Common S. R. in Bristol Co., and formerly bred in Ipswich and Georgetown. Sea-coasts, lakes and rivers. Nest in tree. Eggs, May 8 - July.

ALUCONIDÆ. BARN OWLS.

365. Barn Owl—*Aluco pratincola* (Bonaparte). Accidental from South. May - Dec. Open country. Hides and nests in hollow trees and buildings.

STRIGIDÆ. HORNED OWLS, ETC.

366. Long-eared Owl; Cat Owl—*Asio wilsonidnus* (Lesson). Rare P. R.; sometimes not uncommon in fall and winter. Secluded woods and swamps. Nest in tree, usually in old crow's nest. Eggs, April 1 - May 14.

367. Short-eared Owl; Marsh Owl—*Asio adameus* (Pontoppidan). Uncommon migrant, mainly near coast; rare W. and S. R. Mar. 15 - April 15; summer; Sept. 24 - Nov. 30; winter. Open country, among the tall grass of meadows, marshes, and dunes. Nest on ground.

368. Barred Owl; Hoot Owl—*Strix varia varia* Barton. Scarce R. sometimes common in autumn. Heavy woodlands in swamps. Nest in old hawk or crow nest, or hollow tree. Eggs, Mar. 27 - May 13.

370. Great Gray Owl—*Scotiaptes nebulosa nebulosa* (J. R. Forster). Very rare and irregular W. V. Nov. 10 - Mar. 4. Woods.

371. Richardson's Owl—*Cryptoglaux funerea richardsoni* (Bonaparte.) Very rare and irregular W. V. Nov. 26 - Mar. Woods.

372. Saw-whet Owl; Acadian Owl—*Cryptoglaux acadica acadica* (Gmelin). Scarce and local R.; more often observed as a fall and W. V. Dense woods; nest in cavity in tree. Eggs, April 4 - May.

373. Screech Owl; Red Owl; Mottled Owl—*Otus asio asio* (Linné). Common R. Inhabits woodlands and old orchards with hollow trees, in which it nests. Eggs, April 15 - May 5.

375. Great Horned Owl; Hoot Owl—*Bubo virginianus virginianus* (Gmelin). Scarce P. R. Wild woodlands of heavy timber. Nest in tree-cavity, or open on branch, rarely on ground. Eggs, Feb. 17 - Mar. (April 20.

***375b. Arctic Horned Owl**—*Bubo virginianus subarcticus* Hoy. Accidental from Northwest. One record. Nov. 80.

376. Snowy Owl—*Nyctea nyctea* (Linné). Fall and W. V.; irregular, sometimes common. Oct. 12)28 April 15(May 20. Open country, dunes, rocky islets, more rarely perched in trees,

377a. Hawk Owl—*Surnia ulula caparoch* (Müller). Rare and irregular fall and W. V. Nov. 16 - Mar. 25.

378. Burrowing Owl—*Speotyto cunicularia hypogæa* (Bonaparte). Accidental from West. One record. May.

CUCULIDÆ. CUCKOOS, ETC.

387. Yellow-billed Cuckoo—*Coccyzus americanus americanus* (Linné). Uncommon S. R.; somewhat local. May 4)9 - Sept. 26 (Oct. Nov. Thickets, orchards, etc. Nest in low tree or shrubbery, 4-15 ft. Eggs, May 20 - June 80.

388. Black-billed Cuckoo—*Coccyzus erythrophthalmus* (Wilson). Common S. R. May 4 - Sept. 27 (Oct. See preceding species.

ALCEDINIDÆ. KINGFISHERS.

390. Belted Kingfisher; Kingfisher—*Ceryle alcyon* (Linné). Common S. R.; rare and local in winter. Mar. 15 - Dec. 5 (winter). Near bodies of water; in winter near rapidly running streams or tidal ways. Nest in horizontal burrow dug in bank of earth. Eggs, May 15 - June 6.

PICIDÆ. WOODPECKERS.

393. Hairy Woodpecker. *Dryobates villosus villosus* (Linné). Scarce or rare and local S. R., more common as fall and W. V. Woodlands, groves and shade trees. Nest in hole in tree. Eggs, April 22 - May 30.

394c. Downy Woodpecker—*Dryobates pubescens medianus* (Swainson). Common R., most noticeable in W. Orchards and woodlands. Nest in hole in tree, 3 - 20 ft. Eggs, May 20 - June 21.

400. Arctic Three-toed Woodpecker; Black-backed Three-toed Woodpecker—*Picoides arcticus* (Swainson). Irregular fall and W. V. from North. Sept.) Oct. 16 - April 27 (July, Aug.)

401. Three-toed Woodpecker; Ladder-backed Three-toed Woodpecker—*Picoides americanus americanus* Brehm. Rare and irregular W. V. Winter; April 28.

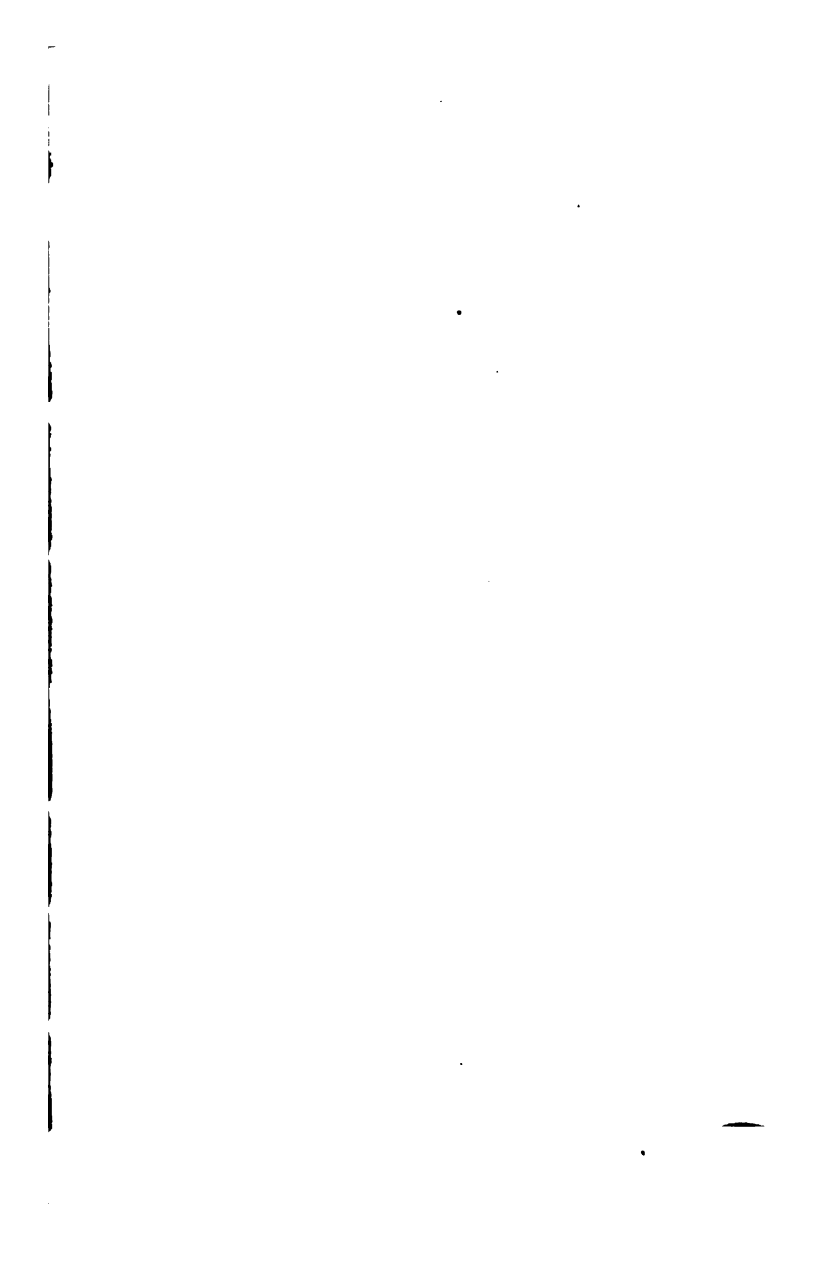
402. Yellow-bellied Sapsucker—*Sphyrapicus varius varius* (Linné). Scarce migrant; very rare W. R. April 4 - May 10; Sept. 10 - Nov. 1 (winter). Orchards, shade-trees and woodlands.

405a. Northern Pileated Woodpecker; "Log-cock"—*Phlœotomus pileatus abieticola* (Bangs). Accidental V. from North or West at any season. Breeds in wilder parts of western and northern New England.

406. Red-headed Woodpecker—*Melanerpes erythrocephalus* (Linné). Rare and irregular V. at all seasons; sometimes breeds. Open woodlands, groves, and shade-trees. Nest in hole in tree.

409. Red-bellied Woodpecker—Centurus carolinus* (Linné). Accidental V. from South. May - Nov.

412. Northern Flicker; Golden-winged Woodpecker; Pigeon Woodpecker; Yellow-hammer—*Colaptes auratus luteus* Bangs. Common S. R.; frequent W. R. Orchards, shade-trees, clearings, fields, buildings. Nest in hole in tree or pole. Eggs, May 6 - June 20.



CAPRIMULGIDÆ. GOATSUCKERS, ETC.

***416. Chuck-will's-widow**—*Antróstomus carolinensis* (Gmelin). Accidental from South. One record. Revere.

417. Whip-poor-will—*Antróstomus vociferus vociferus* (Wilson). Common S. R. April 22) 30-Sept. 25. Woods and thickets, often roadsides and yards; nocturnal. Eggs laid on ground, in woods. May 18 - June 9.

420. Nighthawk—*Chordelles virginidnus virginianus* (Gmelin). Common M., less common S. R. April 23) May 9 - Oct. 6. Flying about in late afternoon and in evening; by day in ledgy woods. Eggs laid on bare ground, ledges, or even flat graveled roofs in cities and towns. Eggs, June 5 - 15.

MICROPODIDÆ. SWIFTS.

423. Chimney Swift; "Chimney Swallow"—*Chætúra pelágica* (Linné.) Common S. R. April 18) 25 - Sept. 25 (Oct. 12. Flying overhead; especially common near old chimneys in May and Aug. Nest of twigs in unused chimney flue. Eggs, June 10 - 30.

TROCHILIDÆ. HUMMINGBIRDS.

428. Ruby-throated Hummingbird—*Archilochus colubris* (Linné). Common M. and S. R. May 1) 6 - Sept. 23 (Oct. 15. About nectar-bearing flowers, borne on either trees, shrubs, vines, or herbaceous plants. Nest of plant-down, covered with lichens, saddled on limb of tree, in woods, orchards or gardens. Eggs, May 24 - June 15.

TYRANNIDÆ. TYRANT FLYCATCHERS.

444. Kingbird—*Tyránnus tyránnus* (Linné). Common S. R. April 27) May 3 - Sept. 19 (26. Orchards, fences, scattered trees in fields; especially in vicinity of water; often frequents the sea-beach. Nest in tree, well out on slender limb. Eggs, May 30 - July 4 (17.

445. Gray Kingbird—*Tyránnus dominicensis* (Gmelin). Accidental from South. One record. Lynn, Oct.

452. Crested Flycatcher—*Myiárchus crinitus* (Linné). Uncommon and local S. R.; rare in Essex Co. May 1) 9 - Sept. 26 (Oct. 15. Open woods, clearings, and back-lying orchards. Nest in hollow tree or limb. Eggs, June 11 - 25.

456. Phoebe; Barn or Bridge-Pewee; Bridge-bird—*Sayornis phoebe* (Latham). Common S. R. Feb. 20) Mar. 12 - Oct. 26 (Nov. 15. About barns, sheds, bridges, especially if near water. Nest on projection under bridge, in cellar or shed. Eggs, April 27 - May 10; 2nd brood, June 18 - July 3. Aug.

***457. Say's Phoebe**—*Sayornis sayus* (Bonaparte). Accidental from West. One record. Sept.

459. Olive-sided Flycatcher—*Nuttallornis borealis* (Swainson). Rare and local S. R. May 10 - Sept. 10. Perched on dead limbs and tree-tops in mixed and coniferous woods. Nest in tree. Eggs, June 16 - July.

461. Wood Pewee—*Myiobchanes virens* (Linné). Common S. R. May 10) 12 - Sept. 26 (Oct. Woods, shade-trees, orchards. Nest in tree. Eggs, June 10 - July 10.

463. Yellow-bellied Flycatcher—*Empidonax flaviventris* (W. M. & S. F. Baird). Rare M. May 10) 15 - June 10 (15; Aug. 25 - Sept. 10 (Nov.; Dec.) Damp, evergreen thickets.

***465. Acadian Flycatcher; Green-crested Flycatcher**—*Empidonax virescens* (Vieillot). Accidental from South. One record.

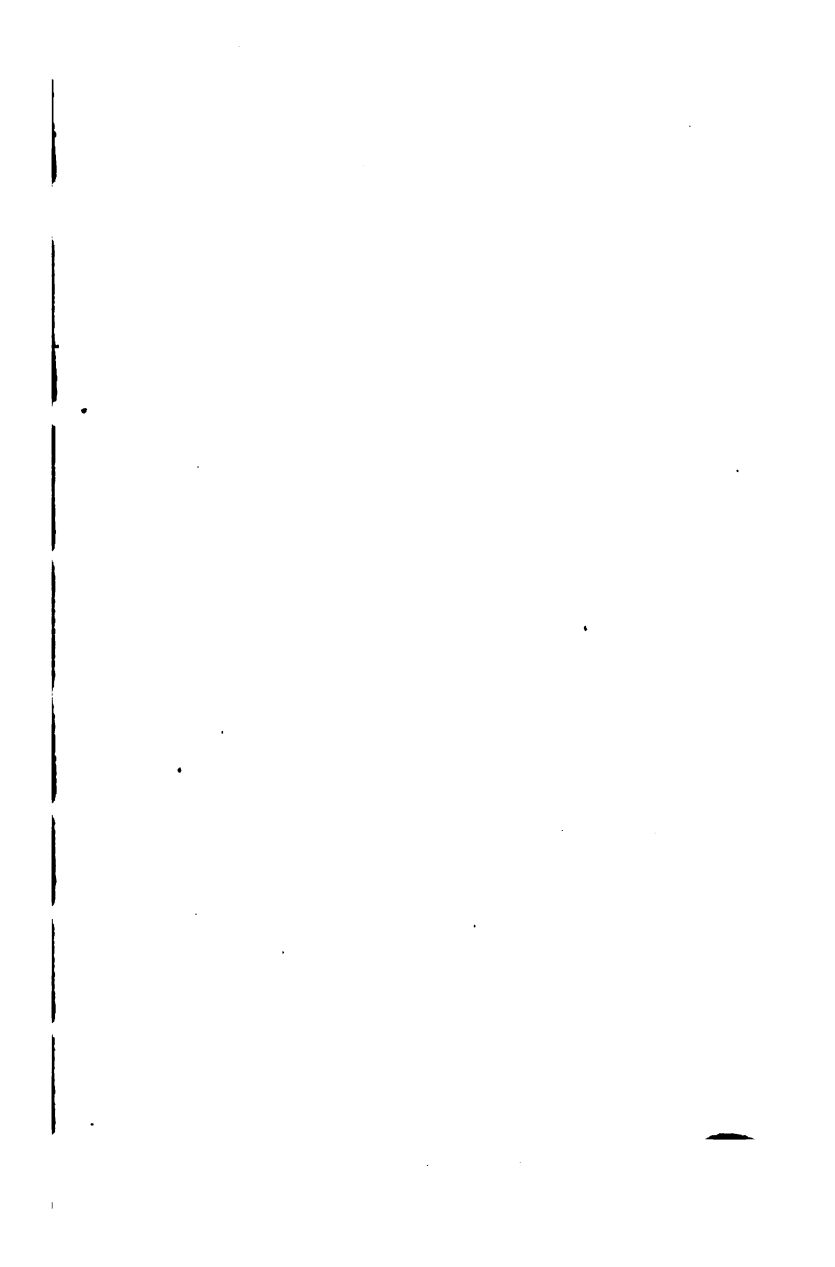
466a. Alder Flycatcher—*Empidonax traillii alnorum* Brewster. Rare and local S. R. May 16 - Aug. 24. Swamps and alder-thickets. Nest in low bush. Eggs, June 15 - July 3.

467. Least Flycatcher; Chebec—*Empidonax minimus* (W. M. & S. F. Baird). Very common S. R. April 22) 28; - Sept. 21 (Oct. 2. Orchards and shade-trees. Nest in tree. Eggs, May 20 - July 1.

ALAUDIDÆ. LARKS.

474. Horned Lark; Shore Lark—*Otocoris alpestris alpestris* (Linné). W. V. or W. R., abundant coast-wise in fall, less plentiful in winter and spring. Sept. 27) Oct. 17 - April 19 (May 27. Open fields, hill-tops, sea-shores, and sand-dunes. In large or small flocks, flying over or running about.

474b. Prairie Horned Lark—*Otocoris alpestris praticola* Henshaw. Rare M. and S. R. Mar. 22 - Nov. 9. Open fields. Nest on ground. Eggs, early July. A recent addition to the avifauna of the district, invading New England from the West. Now breeds regularly at Ipswich—C. W. T.



CORVIDÆ. CROWS, JAYS, ETC.

477. Blue Jay—*Cyanocitta cristata cristata* (Linné). Common M. and R., most conspicuous in winter. Orchards, shade-trees, and woods. Nest in tree. Eggs, April 28 - June 15.

484. Canada Jay—*Perisoreus canadensis canadensis* (Linné). Accidental from North. Summer; Oct.

***486a. Northern Raven**—*Corvus corax principalis* Ridgway. Accidental V. No recent occurrences.

488. Crow—*Corvus brachyrhynchos brachyrhynchos* Brehm. Common R., often abundant W. R. near coast, sometimes forming "roosts." Everywhere. Nests in pine-trees. Eggs, April 15 - June.

***490. Fish Crow**—*Corvus ossifragus* Wilson. Casual from South. Mar. 16 - July 16. Along sea-coast and large streams.

STURNIDÆ. STARLINGS.

Mr. R. B. Mackintosh reports that a lone female has nested in Peabody for two or more years, usually appearing in March.

[493. Starling—*Sturnus vulgaris* Linné. Likely to invade the district at any time, and establish itself as a P. R. in cities and towns.]

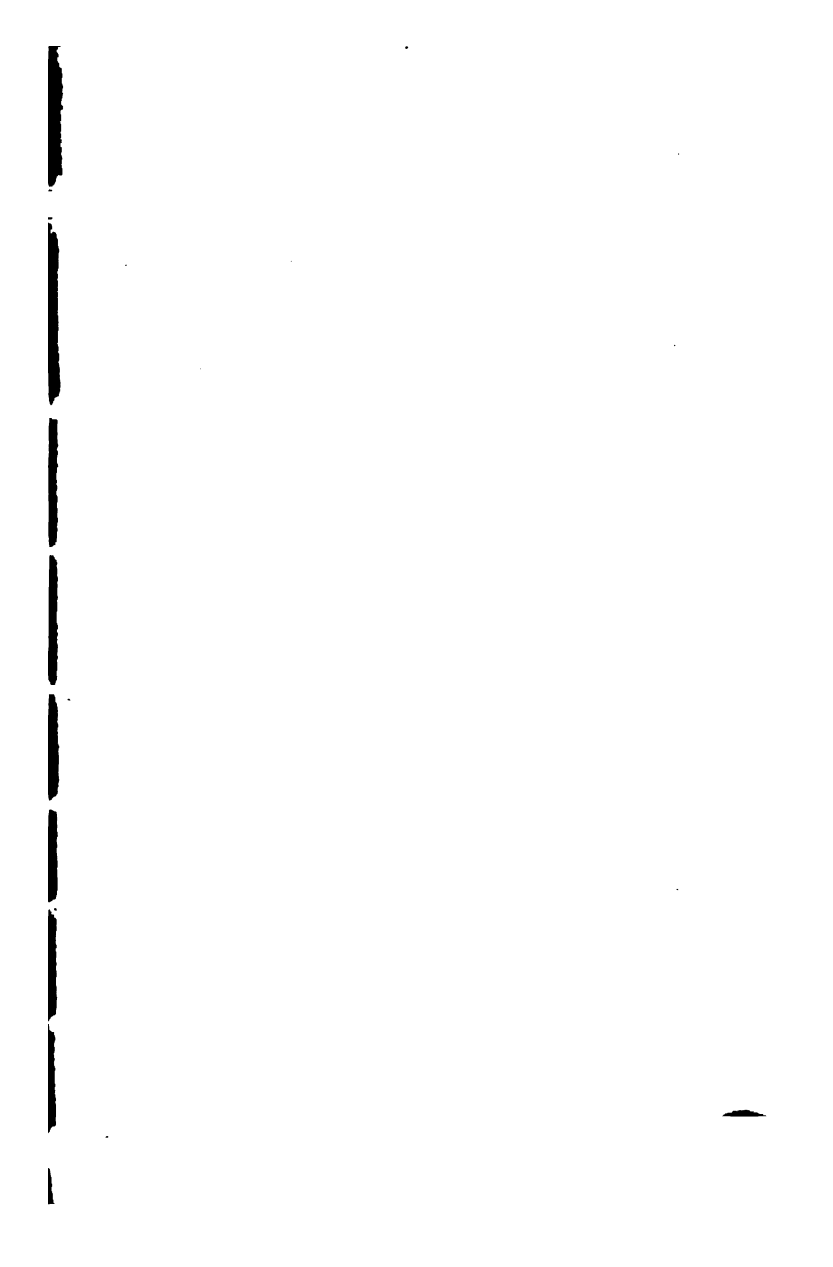
ICTERIDÆ. BLACKBIRDS, ORIOLES, ETC.

494. Bobolink; Skunk Blackbird—*Dolichonyx oryzivorus* (Linné). Common M. and S. R., locally abundant. April 27) May 1 - Sept. 29. Grassy meadows and pastures. Nest on ground. Eggs, June 1 - 8.

495. Cowbird—*Molothrus ater ater* (Boddaert). Common M. and S. R.; rarely winters. Mar. 1) 11 - Nov. 21 (winter). In flocks perched in orchards or on scattered trees, or walking about in roads and pastures, often near cattle. Eggs placed in nests of other birds, May 15 - July 1.

***497. Yellow-headed Blackbird**—*Xanthocephalus xanthocephalus* (Bonaparte). Accidental from West. Sept. - Oct.

498. Red-winged Blackbird—*Agelaius phoeniceus phoeniceus* (Linné). Common, locally abundant, M. and S. R., rarely wintering. Feb. 26) Mar. 6 - Oct. 20 (Nov. 28, winter). Swamps and marshes; flocks of males in early spring give operatic entertainments in tree-tops; on hay-



fields directly after grass is cut. Nest usually in bushes or weeds, 1-3 ft. above water in marshes or streams. Eggs, May 10 - June 18.

501. Meadowlark—*Sturnella magna magna* (Linné). Common S. R.; near coast a rare W. R. Mar. 2 - Nov.; winter. Damp, grassy fields, and pastures. Nest on ground. Eggs, May 11 - June 28.

506. Orchard Oriole—*Icterus spurius* (Linné). Rare and local S. R. near coast. May 1) 8 - Aug. 15. Orchards and shade-trees. Nest in tree. Eggs, May 28 - June 25.

507. Baltimore Oriole; Golden Robin; "Fire-hang-bird;" "Hang-nest"—*Icterus galbula* (Linné). Common S. R. April 29) May 4 - Sept. 9 (Nov.). Shade-trees and orchards. Nest pendulous, usually in elm or apple-tree. Eggs, May 24 - July 4.

509. Rusty Blackbird; Rusty Grackle—*Euphagus carolinus* (Müller). Common M., accidental in winter. Mar. 7 - May 18 (30; Sept. 12) 15 - Nov. 1 (27; (winter). In flocks in swamps, marshes, and wet woods.

***511. Purple Grackle; Crow Blackbird**—*Quiscalus quiscula quiscula* (Linné). Rare S. R.; "occasional typical birds breed in southernmost part and coastwise to Cambridge." Habits and season same as next.

511b. Bronzed Grackle; Crow Blackbird—*Quiscalus quiscula cneus* Ridgway. Common M. and S. R., sometimes appearing in very large flocks in fall; rare in winter coastwise. Feb. 23) Mar. 10 - Nov. 22 (winter. In breeding season in coniferous trees and open lands near water. Nest on branch of pine tree, in bushes, or tree-cavities. Eggs, May 2 - June 1.

FRINGILLIDÆ. FINCHES, SPARROWS, ETC.

514. Evening Grosbeak—*Hesperiphona vespertina vespertina* (Cooper). Accidental W. V. from far Northwest. Dec. 5 - April. Flights in 1889-'90, 1903-'4, 1909, 1910-'11.

515. Pine Grosbeak—*Pinicola enucleator leucura* (Müller). Irregular W. V. from North, sometimes plentiful. Oct. 24 - April 4 (24). Coniferous trees.

517. Purple Finch; "Red Linnet"—*Carpodacus purpureus purpureus* (Gmelin). Common M. and S. R.; irregular, sometimes plentiful, in winter. Mar. 8 - Oct. 21; winter. Orchards, shade-trees, groves, woodlands. Nest in coniferous tree. Eggs, May 25 - June 19.



[House Sparrow; English Sparrow—*Pásser domésticus* Linné. Introduced from Europe. Abundant P. R. in cities and towns. Nest in climbing vines, cavities in trees, buildings, and birdhouses. Eggs, April - July.]

521. Crossbill; American Red Crossbill—*Lóxia curvirostra minor* (Brehm). Irregular, sometimes common W. V. from North, and occasional at other seasons. Rarely breeds. Coniferous trees, especially pitch pines. Nest in tree.

522. White-winged Crossbill—*Loxia leucoptera* Gmelin. Irregular W. V., sometimes common. Oct. 22 - May 12 (25; (June). Conifers.

527a. Hoary Redpoll—*Acanthis hornemanni exilis* (Coues). Rare W. V. Nov. 15 - Mar. 20. One record for Essex Co. Swampscott, Nov. 16, 1878.

528. Redpoll—*Acanthis lindria linaria* (Linné). Frequent, often abundant, but irregular fall and W. V. Oct. 16) 25 - April 10 (25). Open tree-growth and weedy fields, feeding on seeds of birches, alders, ragweed, etc.; often in large flocks.

528a. Holboell's Redpoll—*Acanthis linaria holboelli* (Brehm). Very rare W. V. from North. Mar. 10, 26. Swampscott, 1883.

528b. Greater Redpoll—*Acanthis linaria rostrata* (Coues). Coastwise W. V. from North; irregular, and at times common. Dec. 27 - Feb. 25.

***Brewster's Linnet**—*Acanthis brewsteri* Ridgway. Only one specimen known, taken at Waltham, Nov. 1, 1870. Status uncertain, perhaps a hybrid between Redpoll and Pine Siskin.

529. Goldfinch; Yellow-bird; "Wild Canary"—*Astragalinus tristis tristis* (Linné). Common M. and S. R.; not uncommon in winter; most conspicuous in July and Aug. In flocks, feeding on seeds in weedy fields, roadsides, and gardens, or perched on trees in the vicinity. Nest in bush or tree. Eggs, July 21 - Aug. 11.

533. Pine Siskin—*Spinus pinus* (Wilson). Fall and W. V., irregular, sometimes common; rarely nests. Sept. 19 - May 30; (summer). Coniferous trees. Nest in tree. Eggs, May.

***European Siskin**—*Spinus spinus* Linné. Accidental from Old World; one record.

***[European Goldfinch—*Carduélis carduelis* (Linné). Introduced but not established. Bred near Worcester, July, 1890.]**

1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880.

1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891.

1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902.

1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913.

1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924.

1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935.

1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946.

1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957.

1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968.

1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979.

1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990.

1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001.

2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012.

2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023.

534. Snow Bunting; Snowflake—*Plectrophenax nivalis nivalis* (Linné). Common, sometimes abundant W. R. coastwise; irregularly common inland. Oct. 12-April 3 (May). In flocks, circling over and feeding in weedy pastures, on beaches and sand-dunes.

536. Lapland Longspur—*Calcarius lapponicus lapponicus* (Linné). Irregularly common fall M. and W. R. coastwise; rare in spring; rare inland. Feb. 22-May 1; Oct. 9-Dec. 11; winter. Open fields, sand dunes, marshes. In flocks, often mingling with Snow Buntings and Horned Larks.

538. Chestnut-collared Longspur—*Calcarius ornatus* (J. K. Townsend). Accidental from far West. Magnolia, July.

540. Vesper Sparrow; Grass Finch; Bay-winged Bunting; Ground-bird—*Poæcetes gramineus gramineus* (Gmelin). Common M. and S. R. Mar. 17) 27-Oct. 24 (Nov. 10; Dec. 25. Pastures, grassy fields, roadsides. Nest on ground. Eggs, May 10-June 10.

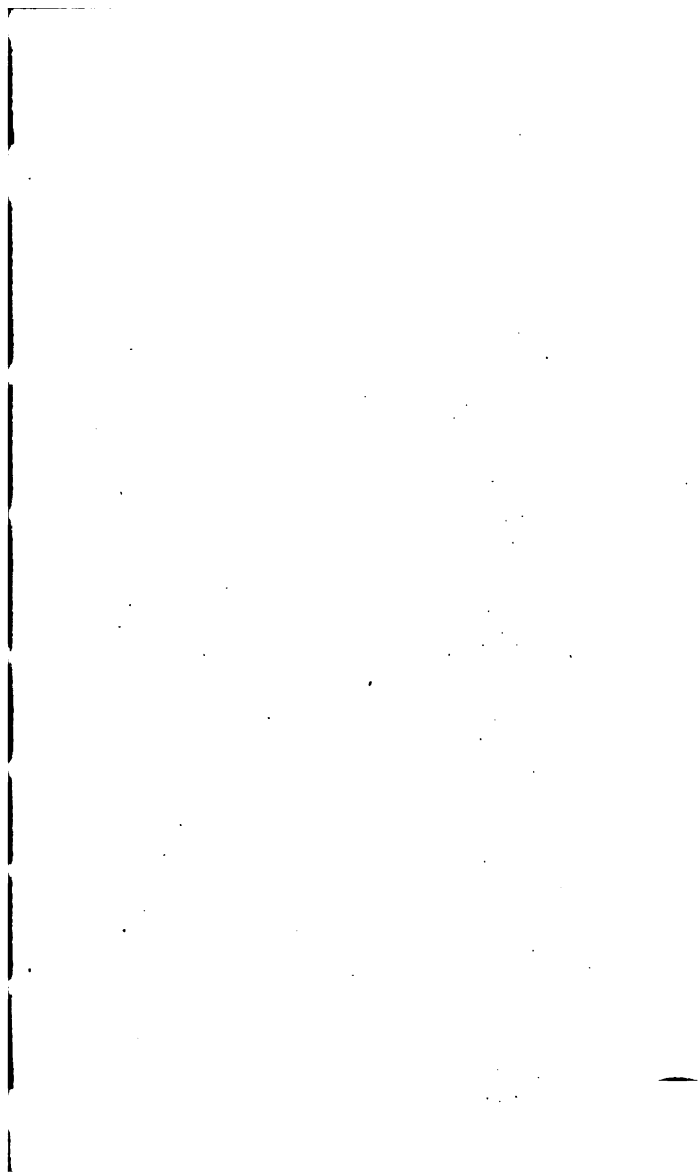
541. Ipswich Sparrow—*Passerculus princeps* Maynard. Common M. and rare W. R. coastwise on sand dunes; casual inland. Oct. 12-April 12. First discovered by C. J. Maynard on the Ipswich sand dunes, 1868, where it frequents the beach-grass, the seeds of which probably form its chief subsistence. Its only known summer home is Sable Id. where it is called the "Gray Bird."

542a. Savannah Sparrow—*Passerculus sandwichensis savanna* (Wilson). Common M. and S. R.; rare or casual W. R. near coast. Perched on fences, or skulking through the grass of damp fields and marshes. Nests on the ground. Eggs, May 21-June 20.

546. Grasshopper Sparrow; Yellow-winged Sparrow—*Ammódramus savannarum australis* Maynard. Scarce or local S. R. April 25) May 10-Sept. 1 (Dec. 10). Dry, sandy, weed-grown fields, where it sings an insect-like song from weed-stalks, fence-posts, or bushes. Nest on ground.

547. Henslow's Sparrow—*Passerherbulus henslowi henslowi* (Audubon). Scarce and local S. R. May 6-Sept. (Nov.) Damp marshes and sedgy bogs. Nest on ground. Eggs, May 25.

549. Sharp-tailed Sparrow—*Passerherbulus caudacutus* (Gmelin). Scarce S. R. in sea-board salt-marshes; rare W. R. on Cape Cod. May 19-Nov. 8 (winter). Nest on ground. Eggs, June 8-July 12.



549.1. Nelson's Sparrow; Nelson's Sharp-tailed Finch—*Passerherbulus nelsoni nelsoni* (Allen). Scarce fall M.; rare W. R. on south shore. Sept. 25 - Oct. 15 (winter). Marshes and cranberry-bogs.

549.1a. Acadian Sharp-tailed Sparrow—*Passerherbulus nelsoni subvirgatus* (Dwight). Scarce M. coast-wise, casual inland. May 20 - June 11; Sept. 3 - Nov. 5. Brackish or freshwater marshes.

550. Seaside Sparrow—*Passerherbulus maritimus maritimus* (Wilson). Rare and local S. R. and W. R. on south shore. April 14 - winter. Salt marshes. Nest on ground. Eggs, July 17.

552. Lark Sparrow; Lark Finch—*Chondestes grammacus grammacus* (Say). Accidental from West. April 29; Aug. 12 - Nov. 25.

554. White-crowned Sparrow—*Zonotrichia leucophrys leucophrys* (J. R. Forster). Uncommon M. May 4 - 27 (June 6; Sept. 23) 30 - Oct. 22 (Nov. 5. Thickets, bushy roadsides, etc.

558. White-throated Sparrow; Peabody-bird—*Zonotrichia albicollis* (Gmelin). Common M.; rare S. R.; rare W. R. near coast. April 15) 22 - May 18 (26; summer; Sept. 1) 12 - Nov. 10; winter. Thickets. Nest on ground or in bush. Eggs, June.

559. Tree Sparrow—*Spizella monticola monticola* (Gmelin). Very common M. and less common W. R. Sept. 21) Oct. 16 - April 28 (May 7. Thickets, fields and marshes.

560. Chipping Sparrow; Chip-bird; Hair-bird—*Spizella passerina passerina* (Bechstein). Abundant M. and S. R. Mar. 13) April 5 - Nov. 25 (Dec. 31. Orchards, lawns, gardens, and fields near dwellings. Nest in trees, vines, etc. Eggs, May 12 - June 26.

***562. Brewer's Sparrow**—*Spizella breweri* Cassin. Accidental from West. Watertown, Dec. 15, 1873.

563. Field Sparrow—*Spizella pusilla pusilla* (Wilson). Common S. R.; rare W. R. near coast. Mar. 29) April 1 - Nov. 13; (winter). Bushy fields and pastures, particularly on drier soil. Nest on ground or in bushes. Eggs, May 8 - June 12.

567. Slate-colored Junco; Junco; Black Snowbird—*Júnco hyemalis hyemalis* (Linné). Common, often abundant, M.; not uncommon in winter. Occasionally breeds (Wellesley, nest, 4 eggs, May 19, 1911). Mar. 8 - May 21; summer; Sept. 3 - Nov. 30; winter. Clearings

the 1990s, the number of people in the world who are under 15 years of age is expected to increase by 1.5 billion, from 1.1 billion in 1990 to 2.6 billion in 2010. The number of people aged 65 and over is expected to increase by 1 billion, from 350 million in 1990 to 1.4 billion in 2010. The number of people aged 15-64 is expected to increase by 1.5 billion, from 2.5 billion in 1990 to 4.0 billion in 2010. The number of people aged 65 and over is expected to increase by 1 billion, from 350 million in 1990 to 1.4 billion in 2010. The number of people aged 15-64 is expected to increase by 1.5 billion, from 2.5 billion in 1990 to 4.0 billion in 2010.

the 1990s, the number of people in the United States who are 65 years of age or older is projected to increase from 20 million to 35 million, and the number of people 75 years of age or older is projected to increase from 10 million to 15 million (U.S. Census Bureau, 1996). The number of people 85 years of age or older is projected to increase from 2 million to 4 million (U.S. Census Bureau, 1996). The number of people 90 years of age or older is projected to increase from 500,000 to 1 million (U.S. Census Bureau, 1996). The number of people 95 years of age or older is projected to increase from 100,000 to 200,000 (U.S. Census Bureau, 1996). The number of people 100 years of age or older is projected to increase from 10,000 to 20,000 (U.S. Census Bureau, 1996).

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and woodland edges, thickets, and weedy fields. Nest on ground, rarely in bushes. Eggs, June - (Aug. 6).

*567f. **Montana Junco**—*Junco hyemalis montanus* Ridgway. Accidental from West. Watertown, Mar. 25, 1874.

581. Song Sparrow—*Melospiza melodia melodia* (Wilson). Abundant M. and S. R.; uncommon W. R. Mar. 10 - Nov. 15; winter. Meadows, swamps, marshes, thickets. Nest on ground or in bushes. Eggs, April 30 - July 29.

583. Lincoln's Sparrow—*Melospiza lincolni lincolni* (Audubon). Rare spring and uncommon fall M. May 7) 12 - 25 (June 1; Sept. 12 - Oct. 14 (Nov. 1). Bushes, stone walls, thickets, and tangles.

584. Swamp Sparrow—*Melospiza georgiana* (Latham). Common M. and local S. R.; rare W. R. near coast as far as Beverly. Mar. 27 - Nov. 30; winter. Swamps, marshes, borders of streams. Nest on ground. Eggs, May 18 - July 14.

585. Fox Sparrow—*Passerella iliaca iliaca* (Merrem). Common M., sometimes abundant; occasionally winters; Mar. 3) 9 - April 25 (May 2; Sept. 17) Oct. 15 - Nov. 27 (winter. Thickets and woodland edges.

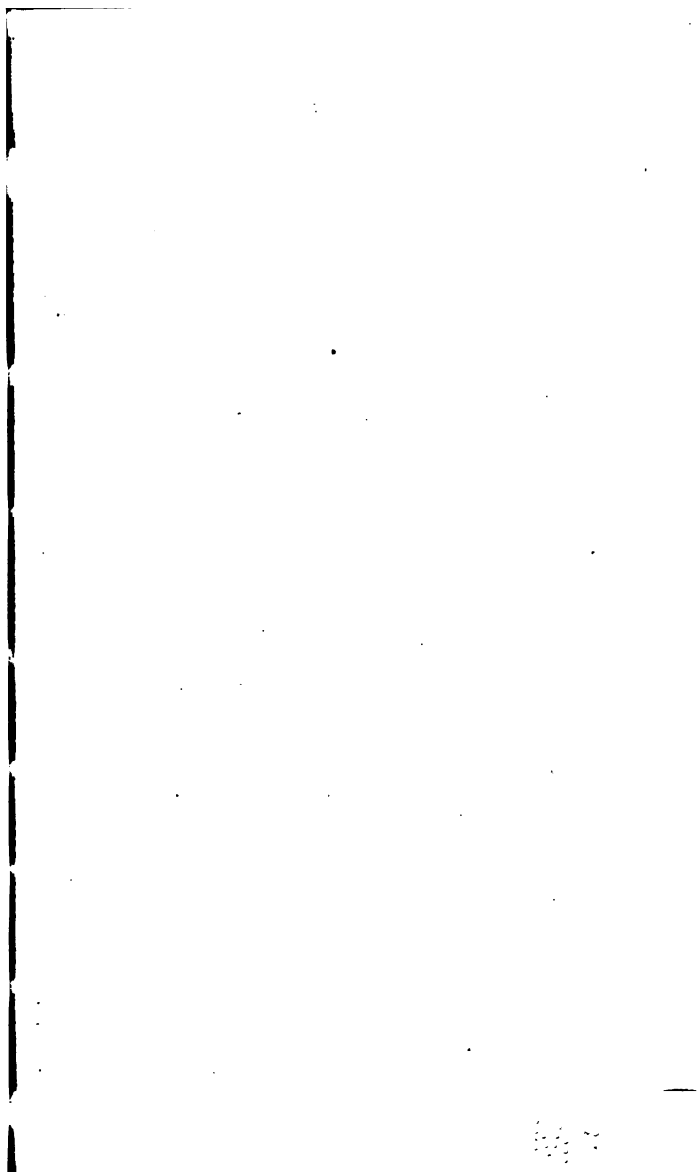
587. Towhee; Chewink; Ground Robin—*Pipilo erythrophthalmus erythrophthalmus* (Linné). Common S. R.; casual in winter (Manchester). April 2) 18 - Oct. 22 (Nov., Dec.; winter.) Dry, or highland thickets and sproutland, bushy pastures. Nest on ground, rarely in bush. Eggs, May 17 - July 12.

593. Cardinal; Red-bird; Virginia Nightingale—*Cardinalis cardinalis cardinalis* (Linné). Occasional V. at all seasons coming from the south, and frequent escapes from captivity. Rarely nests, in bushes; eggs, June 6.

595. Rose-breasted Grosbeak—*Zamelodia ludoviciana* (Linné). Common S. R., apparently increasing in numbers. April 26) May 2 - Oct. 8. Orchards, woodlands, and shade-trees. Nest in trees or bushes. Eggs, May 25 - June 15.

*597. **Blue Grosbeak**—*Guiraca caerulea caerulea* (Linné). Accidental from South. Brookline, May 29, 1880.

598. Indigo Bunting; Indigo-bird—*Passerina cyanea* (Linné). Common M. and S. R., somewhat local. May 8 - Oct. 29 (Dec. Clearings, orchards, shade-trees, bushy pastures, thickets. Singing from tree-tops in season. Nest in low bushes or tangles. Eggs, June 3 - 22.



[*601. **Painted Bunting**—*Passerina ciris* (Linné). Four instances; regarded as escaped cage-birds.]

604. Dickcissel; Black-throated Bunting—*Spiza americana* (Gmelin). No recent occurrences; formerly a scarce S. R. coastwise, but now rare east of the Alleghanies.

605. Lark Bunting—*Calamospiza melanocorys* Stejneger. Accidental from West. Lynn, Dec. 5, 1877.

TANGARIDÆ. TANAGERS.

607. Western Tanager; Louisiana Tanager—*Piranga ludoviciana* (Wilson). Accidental from West. Lynn, Jan. 20, 1878.

608. Scarlet Tanager—*Piranga erythromelas* Vieillot. Common S. R. April 30) May 8 - Oct. 11 (16. Deciduous woodlands and groves. Nest in tree. Eggs, June 2 - 17.

610. Summer Tanager—*Piranga rubra rubra* (Linné). Accidental in summer from South. April 21 - Aug.

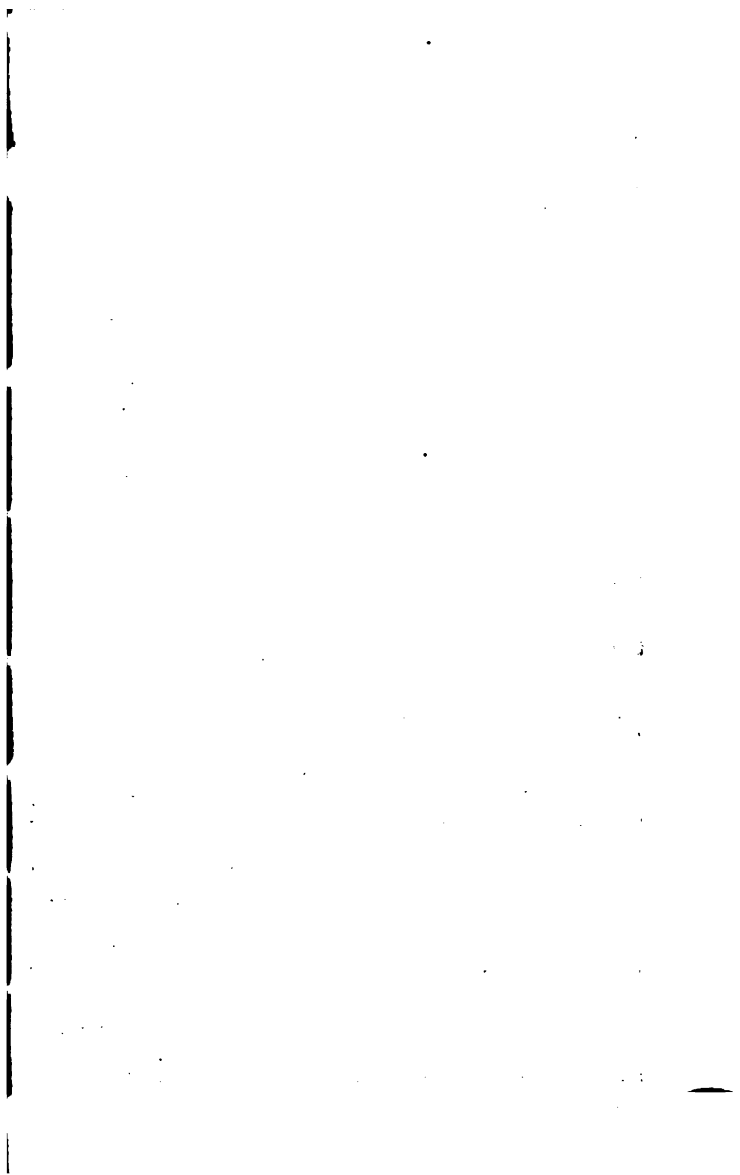
HIRUNDINIDÆ. SWALLOWS.

611. Purple Martin—*Progne subis subis* (Linné). Common, local S. R. until recently. Nearly exterminated by storms in spring of 1903. Two or three were seen in Hamilton, June, 1909. April 14) 19 - Sept. 1 (30. Flying about nesting-site and sailing high overhead, wandering widely in August. Nest in bird-houses near dwellings, in colonies. Eggs, May 30 - June 21.

612. Cliff Swallow; Eaves Swallow—*Petrochelidon lunifrons lunifrons* (Say). Common M. and less common and local S. R. (Ipswich, Topsfield, Saugus, Lynnfield). April 23 - Sept. 4 (30. Flying about in open country, especially near nesting-site. Nests in colonies under eaves of old barns and sheds. Eggs, May 25 - July 20.

613. Barn Swallow; Fork-tailed Swallow—*Hirundo erythrogastra* Boddaert. Common M. and S. R. April 5) 17 - Sept. 30 (Oct. 7. About old barns, in open fields, on telegraph wires. Nest on rafters of old barns and sheds. Eggs, May 18 - July 12.

614. Tree Swallow; White-bellied Swallow—*Iridoprocne bicolor* (Vieillot). Common M. and less common S. R. Mar. 15) 22 - Oct. 17 (Nov. 2. Flying in vicinity of water or nesting-site, or perched on telegraph wires.



Nest in hole in tree, or bird-house near dwelling. Eggs, May 14 - June 15.

616. Bank Swallow; Sand Swallow—*Riparia riparia* (Linné). Common M. and local S. R. (according to nesting conditions). April 24 - Sept. 2 (Nov. 2. Flying near nesting-site. Nest in horizontal burrow in earth bank, usually near water. Eggs, May 28 - June 17.

BOMBYCILLIDÆ. WAXWINGS.

618. Bohemian Waxwing—*Bombycilla garrula* (Linné). Accidental W. V. from North. Dec. 26 - Feb. 18.

619. Cedar Waxwing; Cedar-bird—*Bombycilla cedrorum* Vieillot. Common M. and S. R. and irregular V. at other seasons. Orchards, shade-trees, woodlands. Nest in tree. Eggs, May 30 - July.

LANIIDÆ. SHRIKES.

621. Northern Shrike; Butcher-Bird—*Lanius borealis* Vieillot. Uncommon, somewhat irregular W. R. Oct. 6) 12 - April 16 (May. Perched on scattered trees in fields near thickets, sometimes in towns, where it preys on the House Sparrow.

622e. Migrant Shrike; Northern Loggerhead Shrike—*Lanius ludovicianus migrans* W. Palmer. Rare M. and very rare W. V. Jan. 28, April. Aug. 22 - Nov. 27 (Dec. 19).

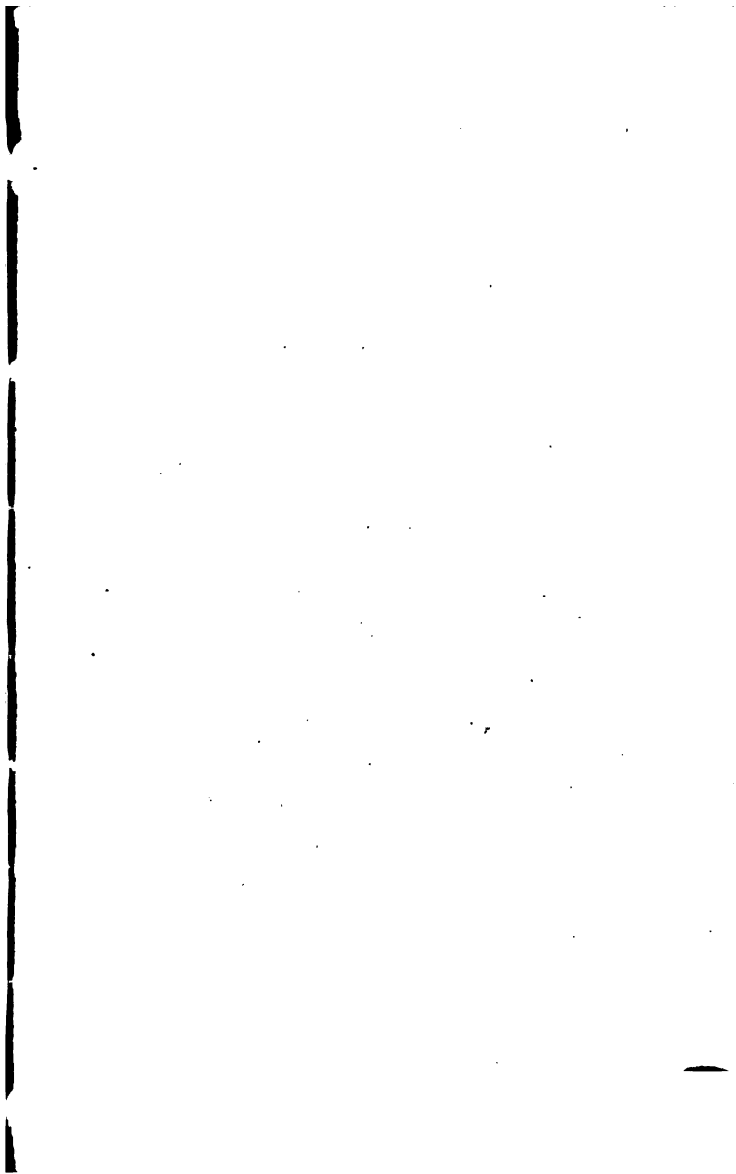
VIREONIDÆ. VIREOS.

624. Red-eyed Vireo—*Vireosylva olivacea* (Linné). Common S. R. May 4 - Oct. 11 (Nov. Orchards, shade-trees, and edges or clearings in deciduous woodlands. Nest pensile in fork of tree-branch or bush, usually low. Eggs, May 25 - July 20.

626. Philadelphia Vireo—*Vireosylva philadelphica* Cassin. Very rare M. May ? - 17; Sept. 7 - 27.

627. Warbling Vireo—*Vireosylva gilva* (Vieillot). Common S. R. April 24) 29 - Sept. 26. Orchards and shade-trees, especially elms in village streets. Nest pensile in tree. Eggs, May 30 - June 11.

628. Yellow-throated Vireo—*Laniotreus flavifrons* (Vieillot). Common S. R. May 1 - Sept. 19. Orchards, shade-trees, and woodland edges. Nest pensile in tree. Eggs, May 24 - June 17.



629. Blue-headed Vireo; Solitary Vireo—*Lani-vireo solitarius solitarius* (Wilson). Not uncommon M.; rare and local S. R. April 11) 18 - May 8 (13; Sept. 11) 15 - Oct. 5 (17). Cool mixed or white pine woods and groves. Nest in tree. Eggs, May 13 - June 26.

631. White-eyed Vireo—*Vireo griseus griseus* (Boddaert). Scarce or rare and local S. R. near coast and in southeast section. May 2) 8 - Sept. 27 (Oct. 30. Damp thickets. Nest in bushes. Eggs, May 22 - June 18.

MNIOTILTIDÆ. WOOD WARBLERS.

636. Black and White Warbler—*Mniotilta varia* (Linné). Very common M. and less common S. R. April 18) 28 - Oct. 29 (Dec. 5. Mixed woodlands, orchards, and shade-trees. Nest on ground. Eggs, May 17 - June 22.

637. Prothonotary Warbler—Protonotaria citrea* (Boddaert). Accidental from South. May 1 - Sept. 15.

639. Worm-eating Warbler—*Helminthæros vermivorus* (Gmelin). Accidental from South. Salem Willows, April 14, 16, 1902; other records in eastern Mass., May 9, Sept. 19.

641. Blue-winged Warbler—Vermivora pinus* (Linné). Very rare V. from South. May 12 - 17. Very rare S. R. Sudbury, 1909.

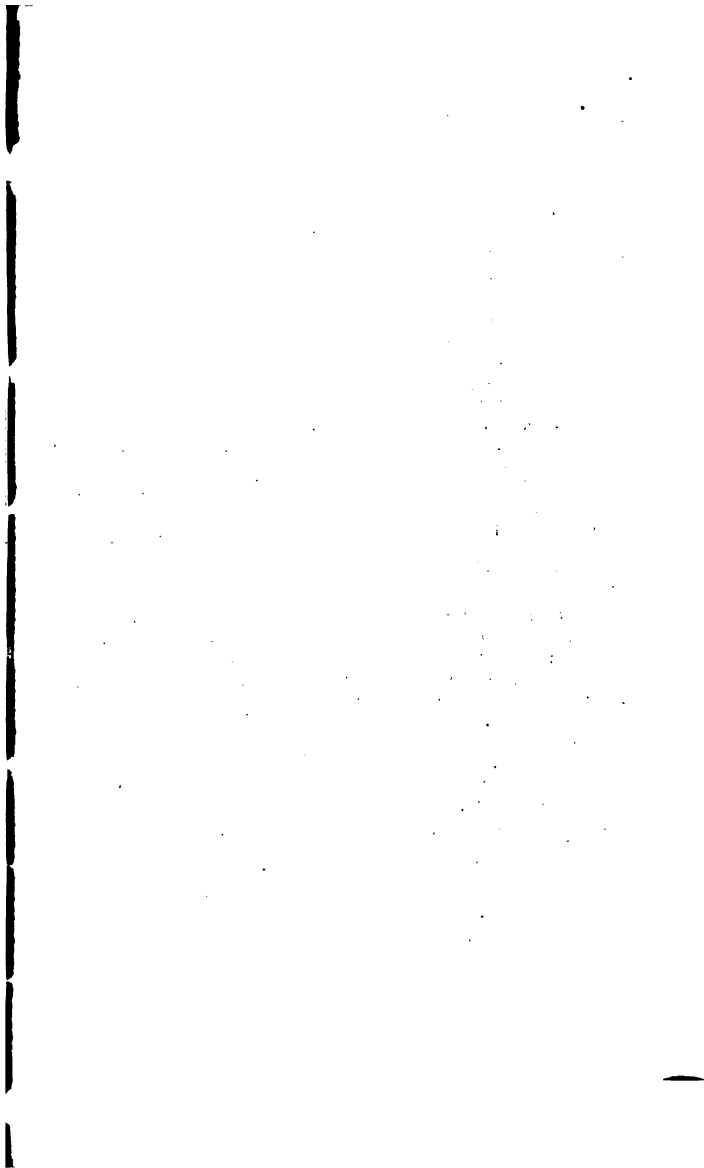
642. Golden-winged Warbler—*Vermivora chrys-optera* (Linné). Scarce S. R., not uncommon locally in Essex Co. and in parts of Wellesley, Weston, Waltham, etc. May 4) 7 - Sept. 1 (Oct. 8. Low, bushy growths and sprout lands. Nest on ground. Eggs, May 17 - June 22.

Lawrence's Warbler—Vermivora lawrencæ* (Herrick). Very rare S. V. or S. R. Dedham, May 27, 1908. Probably a hybrid between Blue-winged and Golden-winged Warblers.

Brewster's Warbler—Vermivora leucobronchialis* (Brewster). Rare S. R. May 14 - summer. Nest on ground. Eggs, June 8 - 18. Probably a hybrid between Blue-winged and Golden-winged Warblers and similar in habits.

645. Nashville Warbler—*Vermivora rubricapilla rubricapilla* (Wilson). Common M. and less common S. R.; accidental in W. April 20) May 2 - Sept. 25. (Oct. 14. Jan.). Open woodlands, near swamps and streams. Nest on ground. Eggs, May 21 - June 21.

646. Orange-crowned Warbler—*Vermivora celata*



celata (Say). Rare M. or accidental V. Lynn, Jan. 1, 1875. May 15, Sept. 30 - Nov. 29.

647. Tennessee Warbler—*Vermivora peregrina* (Wilson). Rare M.; exceedingly rare in autumn. May 10) 15 - 25 (30; Aug. - Sept. 10.

648a. Northern Parula Warbler; Blue Yellow-backed Warbler; Usnea Warbler—*Compsolypis americana usneæ* Brewster. Common M. and scarce and local S. R. April 25) May 1 - Oct. 10 (Nov. 19. Woodlands, sometimes orchards, and shade-trees, during migration. Nest in pendulous mass of Usnea lichen, on trees, usually in swamps. Eggs, May 30 - July 5.

650. Cape May Warbler—*Dendroica tigrina* (Gmelin). Rare M. May 2) 10 - 25; Aug. 18 - Sept. 15 (Oct. 9. Open woodlands.

652. Yellow Warbler; Yellow-bird; Summer Yellow-bird—*Dendroica aestiva aestiva* (Gmelin). Very common M. and S. R. April 23) May 1 - Sept. 30 (Nov. 28. Orchards and gardens, shade-trees, thickets and bushy swamps. Nest in tree or bush. Eggs, May 20 - June 14.

654. Black-throated Blue Warbler—*Dendroica cerulescens cerulescens* (Gmelin). Common M. and very rare S. R. (Nest at Sterling, May 28, 1911) May 5) 10 - 25 (June 3; Aug. 26) Sept. 10 - Oct. 11 (Nov. 8.

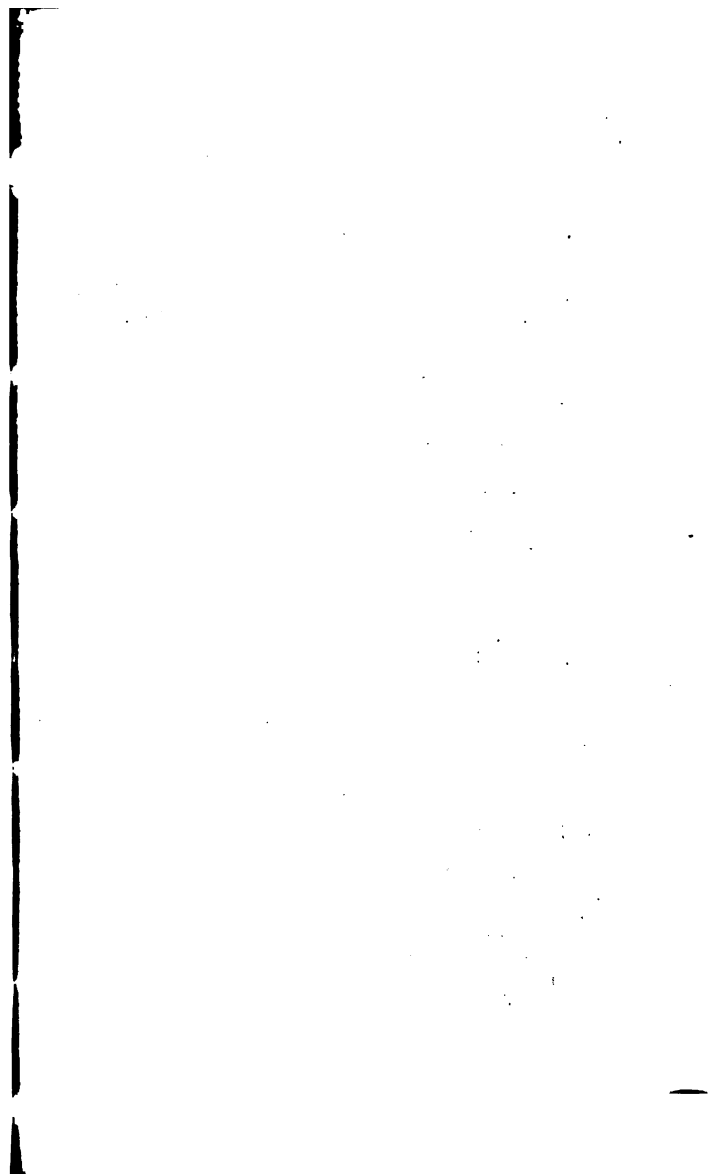
655. Myrtle Warbler; Yellow-rumped Warbler—*Dendroica coronata* (Linné). Very common M.; scarce S. R. in small numbers in northern part of Worcester Co. (Winchendon, Mt. Wachusett); local but regular W. R. coastwise (Ipswich and Cape Cod), sometimes inland occasionally as far as Wellesley, at that season feeding largely on bay-berries. April 13 - May 30; summer; Aug. 21 - Nov. 26; winter. Open tree-growth; in winter, vicinity of bayberry thickets.

***656. Audubon's Warbler**—*Dendroica auduboni auduboni* (J. K. Townsend). Accidental from West. Cambridge, Nov. 15.

657. Magnolia Warbler; Black and Yellow Warbler—*Dendroica magnolia* (Wilson). Common M. May 4) 7 - 30; Aug. 25) Sept. 10 - 25 (Oct. 9. Woodlands generally.

***658. Cerulean Warbler**—*Dendroica cerulea* (Wilson). Accidental from South. Cohasset.

659. Chestnut-sided Warbler—*Dendroica pensylvanica* (Linné). Very common M. and less common S. R.



April 28) May 2 - Sept. 15 (30. Open woods, thickets and sprout land. Nest in bushes. Eggs, May 26 - June 17.

660. Bay-breasted Warbler—*Dendroica castanea* (Wilson). Rare M., sometimes common. May 8) 15 - 28; (June, July) Aug. 23) Sept. 10 - Oct. 1(8.

661. Black-poll Warbler—*Dendroica striata*. (J. R. Forster). Common M., very common in fall. April 15) May 8 - June 14; Aug.; Sept. 1) 12 - 30(Nov. 7.

662. Blackburnian Warbler—*Dendroica fusca* (Müller). Scarce M.; rare S. R. May 2) 6 - 30; summer; Sept. 7 - 23 (Oct. 10. Mixed and coniferous woods, especially of hemlock and white pine. Nest in coniferous tree. Eggs, June 5 - 26.

663. Yellow-throated Warbler—*Dendroica dominica dominica* (Linné). Accidental from South. Nov. Dedham.

667. Black-throated Green Warbler—*Dendroica virens* (Gmelin). Very common M. and S. R. April 30) May 1 - Oct. 29 (Nov. 3. White pine groves and woodlands. Nest in pine tree. Eggs, May 30 - June 18.

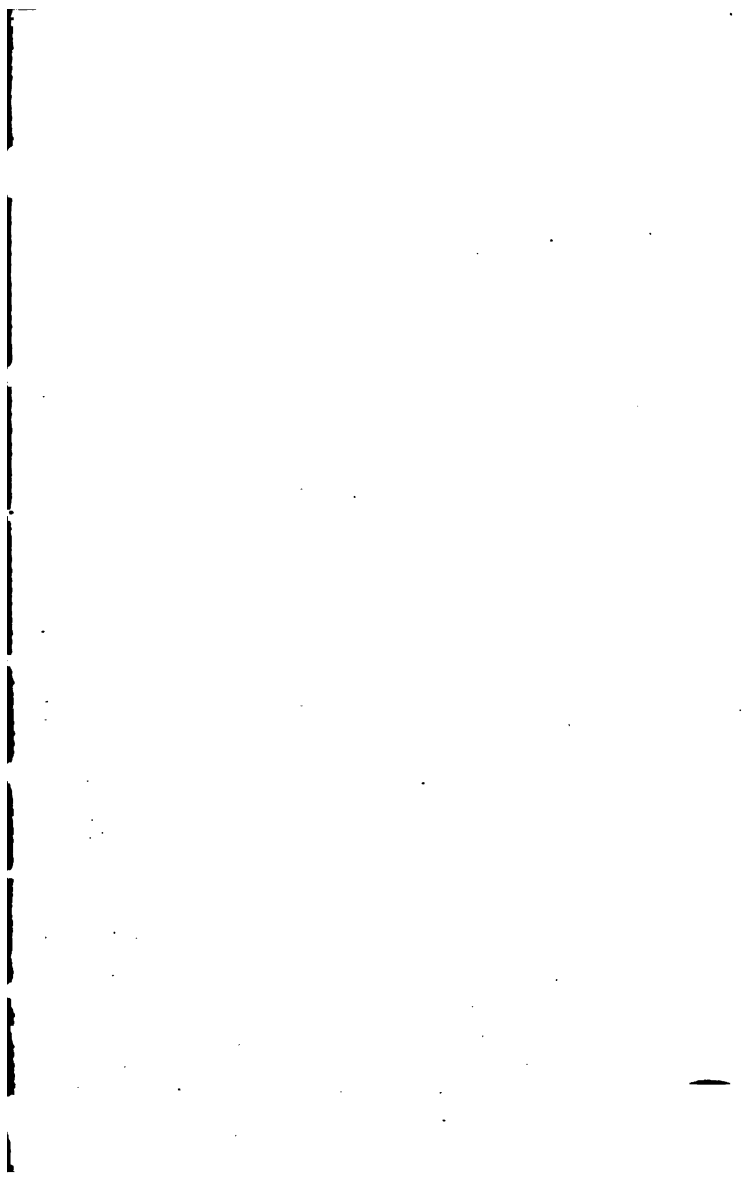
671. Pine Warbler *Dendroica vigorsii* (Audubon). Common M. and S. R.; accidental in winter. Mar. 29) April 7 - Nov. 25 (winter. Pitch pine groves and woodlands. Nest in tree. Eggs, May 8 - June 16; July.

672. Palm Warbler; Red-poll Warbler—*Dendroica palmarum palmarum* (Gmelin.) Rare fall M. Sept. 7) 15 - Oct. 10 (28; (Dec. 6). See next for haunts.

672a. Yellow Palm Warbler; Yellow Red-poll—*Dendroica palmarum hypochrysea* Ridgway. Common spring and scarce fall M. Mar. 28) April 13 - May 6 (21; Sept. 5) 30 - Oct. 15 (26. Open tree-growth, thickets, edges of fields, roadsides; much upon the ground.

673. Prairie Warbler—*Dendroica discolor* (Vieillot). Locally common S. R., chiefly near coast; accidental in winter on Cape Cod. May 2) 6 - Sept. 25 (Jan.). Dry, upland bushy fields and sprout lands; often in pastures with a bushy growth of junipers and barberry bushes. Nest in bush. Eggs, Mar. 28 - June 18.

674. Oven-bird; Golden-crowned Thrush—*Seturus aurocapillus* (Linné). Very common M. and S. R. April 30) May 2 - Sept. 27 (Dec. 30). Groves and woodlands, largely walking on the ground. Nest on ground, covered. Eggs, May 17 - June 16; (July 8).



675. Water-Thrush; Water Wagtail—*Seiurus noveboracensis noveboracensis* (Gmelin). Common M.; rare and local S. R. April 25) May 2 - June 5; (summer); Aug. 1 - Oct. 16. Walking on the borders of woodland streams, ponds, and swampy pools. Nest on ground or among tree-roots. Eggs, May 21.

676. Louisiana Water-Thrush—Seiurus motacilla* (Vieillot). Very rare V. Wellesley, April 13, 1902.

677. Kentucky Warbler—Oporornis formosus* (Wilson). Accidental V. Wellesley, May 14, 1907. Doubtfully reported from Lynn. Undergrowth in swampy woods.

678. Connecticut Warbler—*Oporornis agilis agilis* (Wilson). Rare fall M. (accidental in spring?) (May?) Sept. 7 - Oct. 9. Woodlands and thickets, often on the ground.

679. Mourning Warbler—*Oporornis philadelphia* (Wilson). Rare M. May 14) 21 - June 18; Sept. 12 - 30. Thickets and tangles.

681d. Maryland Yellow-throat—*Geothlypis trichas trichas* (Linné). Very common M. and S. R.; accidental in winter. April 30) May 2 - Oct. 21 (winter). Swamps, bushy meadows, and springy runs. Nest on or near ground, Eggs, May 24 - June 17.

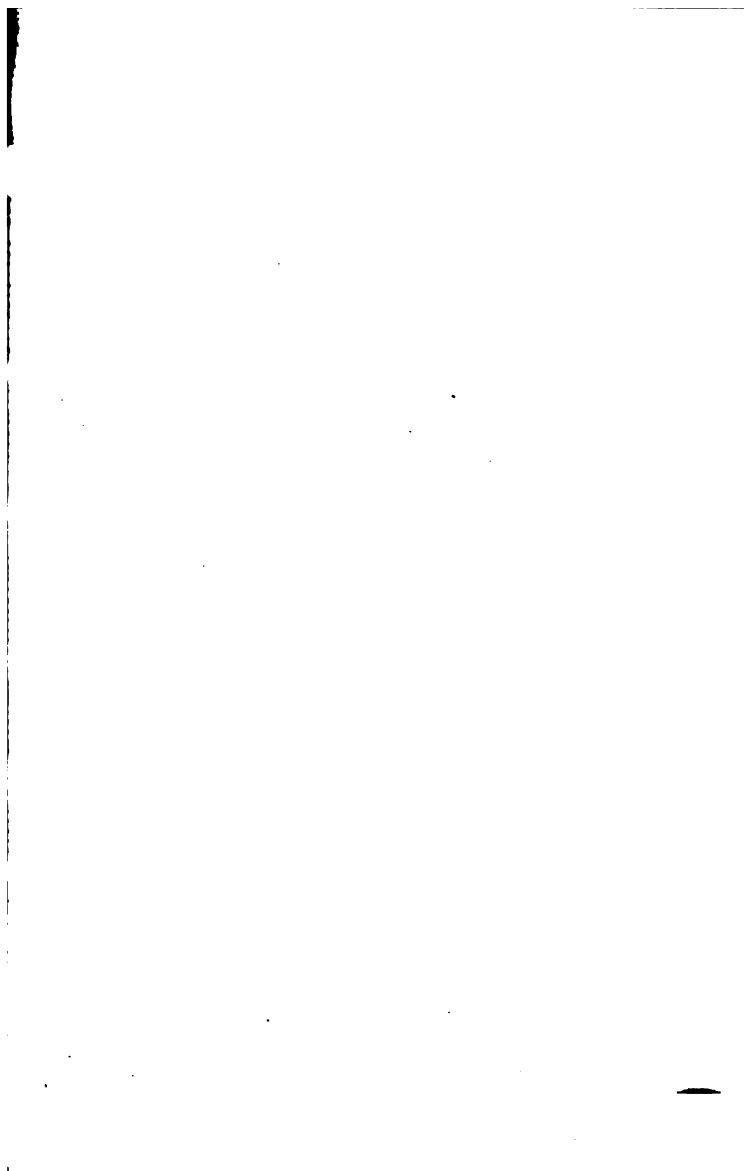
683. Yellow-breasted Chat—*Icteria virens virens* (Linné). Rare and local S. R., in certain localities near coast formerly not uncommon, especially in Essex Co. May 10 - Sept. 10 (Oct. 26, Lynnfield, 1907). Essex, Salem, Swampscott, Lynn, Melrose, Malden, Saugus and Braintree. Probably bred in Ipswich the last 3 or 4 summers,—C. W. T. Damp thickets, tangles of bushes and smilax in wet runs and edges of swamps. Nest low, 2 - 4 ft., in bush. Eggs, May 18 - June 18.

684. Hooded Warbler—Wilsonia citrina* (Boddaert). Rare or accidental S. V. from South. May 8, June 25, Oct. 15.

685. Wilson's Warbler; Wilson' Black-cap—*Wilsonia pusilla pusilla* (Wilson). Scarce M. May 7 - 30; Aug. 23 - Sept. 27 (Nov. 20). Woodland undergrowth, near streams and in swamps.

686. Canada Warbler—*Wilsonia canadensis* (Linné). Common M. and rare and local S. R. May 9 - Sept. 29. Breeds in Essex Co. Swampy woods and thickets. Nest on or near ground. Eggs, June 9 - 26.

687. Redstart—*Setophaga ruticilla* (Linné). Very common M. and S. R. April 23) May 4 - Oct. 12 (Nov. 1.



Woodlands, orchards, and shade-trees. Nest in tree. Eggs, May 29 - June 21.

MOTACILLIDÆ. WAGTAILS.

697. Pipit; Titlark—*Anthus rubescens* (Tunstall). Common fall M., very scarce in spring; accidental in winter. April 18 - May 20 (June 8); (Aug. 29) Sept. 10 - Nov. 24 (winter). Plowed fields, barren grounds, seashores.

MIMIDÆ. THRASHERS, MOCKINGBIRDS, ETC.

703. Mockingbird—*Mimus polyglottos polyglottos* (Linné). Occasional V. at all seasons, and rare S. R.; also frequent as escapes from captivity. Thickets and tree-clumps. Nest in bush or tree. June 18 - 20.

704. Catbird—*Dumetella carolinensis* (Linné). Very common S. R.; accidental in winter. April 13) 29 - Oct. 16 (Dec.). Damp thickets and tangles. Nest in bush or vines. Eggs, May 22 - June 20.

705. Brown Thrasher; Brown Thrush; Planting-bird—*Toxostoma rufum* (Linné). Common S. R. and accidental W. R. April 16) 20 - Oct. 26 (Nov.; winter. Dry thickets, borders of woods, and sprout-lands. Sings from tops of trees in spring. Nest low, in bushes or on ground. Eggs, May 10 - June 21.

TROGLODYTIDÆ. WRENS.

718. Carolina Wren—*Thryothorus ludovicianus ludovicianus* (Latham). Occasional at all seasons and very rare S. R. Lynn, July 6, 1878. Essex Co., Feb. - Aug., 1909—C. W. T. Dense undergrowth and tangles.

721. House Wren—*Troglodytes aëdon aëdon* Vieillot. Scarce and local S. R.; formerly common. April 24) May 1 - Oct. 30. Recorded from Ipswich, Hamilton, Lynnfield, and Saugus. I have met with it in summer at Belmont, Sherborn, and Stow within the last three years. Old orchards, brush-piles, and out-buildings. Nest in cavity of tree, bird-box, crevice, or other shelter. Eggs, May 25 - June 5.

722. Winter Wren—*Nannus hiemalis hiemalis* (Vieillot). Scarce M., rare W. R.; very rare S. R. April 4 - 29; summer; Sept. 2 - Nov. 25; winter. Old wood and brush piles, fallen logs, damp thickets, and bushy nooks.

Ver M

724. Short-billed Marsh Wren—*Cistothorus stel-laris* (Naumann). Rather scarce S. R. except locally (Hamilton, Saugus, Lynnfield). May 6 - Oct. 9. Wet meadows, among grasses and sedges, often in colonies. Nest spherical, among grass-stems, near ground. Eggs, May 25 - June 18; July 7.

725. Long-billed Marsh Wren—*Telmatodytes palustris palustris* (Wilson). Locally common S. R.; rarely winters. May 2) 15 - Nov. 30 (winter). Cat-tail swamps and borders of streams among coarse grasses and sedges, usually in colonies. Nest of grass, globular, entrance on side, supported among cat-tails, grass-stems, etc. Eggs, June 5 - 29 (Aug. 1). Ipswich R. in Topsfield and Wenhams; Fresh Pond marshes in Cambridge; Sudbury R. meadows in Wayland; Charles R. Broads in Medfield and Sherborn; etc. Essex Co. is thought to be the northeastern limit of its range.

CERTHIDÆ. CREEPERS.

726. Brown Creeper—*Certhia familiaris americana* Bonaparte. Common M. and W. R.; very rare and local S. R. in cold swamps (Hamilton, Taunton). Sept. 12 - May 8; summer. Woodlands and groves, climbing tree-trunks spirally, often in company with chickadees. In breeding season, cold swamps. Nest on tree-trunk, behind flake of loose bark. Eggs, May 6 - 23.

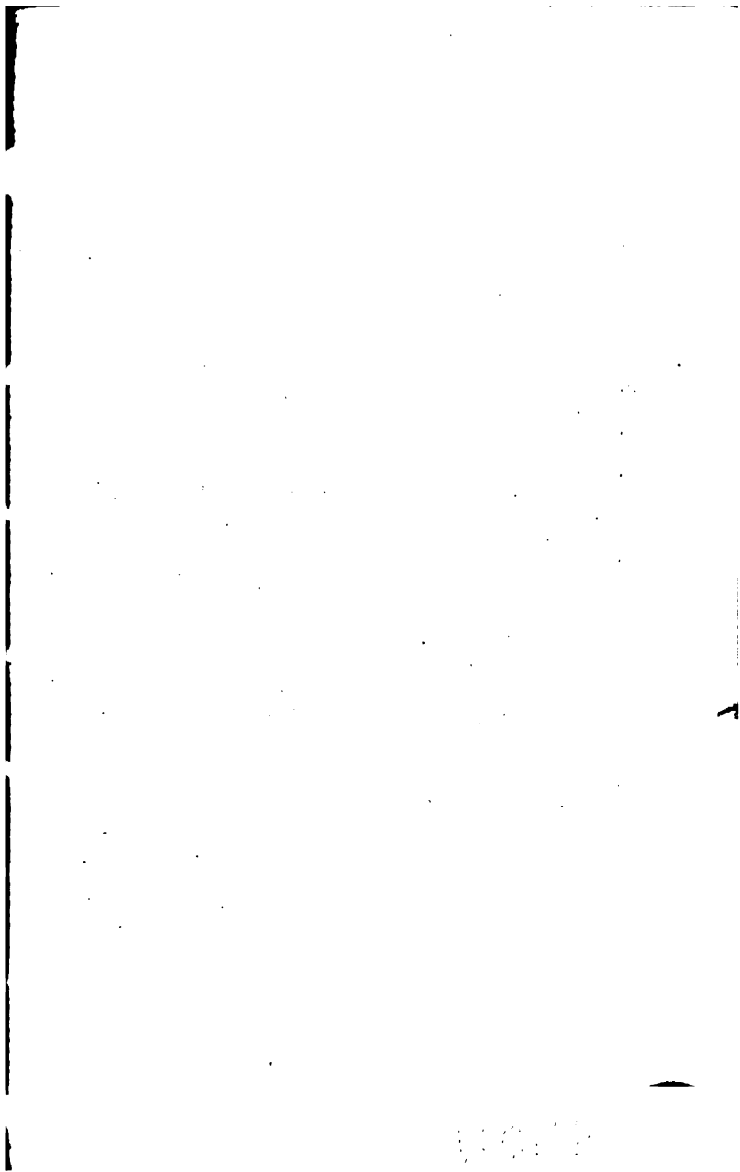
SITTIDÆ. NUTHATCHES.

727. White-breasted Nuthatch—*Sitta carolinensis carolinensis* Latham. Common M. and less common W. R., and not uncommon S. R. Trees generally, clambering about on trunks and larger limbs. Nest in hole in tree or stump. Eggs, April 3 - May 1.

728. Red-breasted Nuthatch—*Sitta canadensis* Linné. Irregular fall and W. V., sometimes abundant; rare S. R. Aug. 15 - May 20; summer. Tree-growth generally, conifers by preference. Nest in hole in dead tree. Eggs, May 18 - June 10.

PARIDÆ. TITMICE.

735. Chickadee; Black-capped Titmouse—*Penthestes atricapillus* (Linné). Very common R., especially noticeable in winter, Orchards and woodlands. Nest



excavated in dead trunk, often near water. Eggs, May 4 - June 25; July.

740. Hudsonian Chickadee—*Penthestes hudsonicus* (J. R. Forster). Accidental fall and W. V. from North. Oct. 18 - April 5 (June). Coniferous forests; white pine groves.

SYLVIIDÆ. KINGLETS, GNATCATCHERS, ETC.

748. Golden-crowned Kinglet—*Régulus satrapa* Lichtenstein. Common M. and W. R.; very rare S. R. Sept. - April; summer. Trees generally, evergreens especially. Nest in coniferous tree. Eggs, May - June 29.

749. Ruby-crowned Kinglet—*Regulus calendula* (Linné). Common M., accidental in winter. April 5 - May 13; Sept. 23 - Nov. 20; (winter). Tree-growth generally.

751. Blue-gray Gnatcatcher—*Polióptila cærúlea* cærúlea (Linné). Accidental V. from South; possibly bred once near Taunton. Magnolia, West Manchester. Aug. 27 - Dec. 18.

TURDIDÆ. THRUSHES, BLUEBIRDS, ETC.

755. Wood Thrush—*Hylocichla mustelina* (Gmelin). Common S. R. April 26) May 1 - Sept. 23 (Oct., Nov. 18. Swampy undergrowth of deciduous woods. Nest in bush or tree. Eggs, May 25 - June 15 (26).

756. Veery; Wilson's Thrush—*Hylocichla fuscescens fuscescens* (Stephens). Very common S. R. April 30) May 4 - Sept. 27 (Oct. 14. Swampy undergrowth. Nest in shrubbery, on or near ground. Eggs, May 20 - June 30.

***756a. Willow Thrush; Newfoundland Thrush**—*Hylocichla fuscescens salicicola* Ridgway. Very rare M. Lowell.

757. Gray-cheeked Thrush—*Hylocichla aliciae aliciae* (Baird). Scarce M. May 13 - June 3 (18; Sept. 10) Oct. 9. Damp woodland undergrowth.

757a. Bicknell's Thrush—*Hylocichla aliciae bicknelli* Ridgway. Scarce M. May 2 - 30; Sept. 10 - Oct. 25.

758a. Olive-backed Thrush; Swainson's Thrush—*Hylocichla ustulata swainsoni* (Tschudi). Common M. May 3 - June 7; Sept. 9 - Oct. 8 (21. Open woodlands, thickets, and shrubbery.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and the role of the accounting department in ensuring the integrity of the financial statements. It emphasizes the need for transparency and accountability in all financial reporting.

2. The second part of the document outlines the various methods used to collect and analyze financial data, including the use of statistical models and the application of advanced data analysis techniques. It highlights the importance of using reliable data sources and the need for regular updates to the financial information.

3. The third part of the document provides a detailed overview of the financial performance of the company over the past year, including a breakdown of revenue, expenses, and profit. It also includes a comparison of the company's performance to industry benchmarks and a discussion of the factors that have contributed to the results.

4. The fourth part of the document discusses the company's financial strategy for the future, including plans for increasing revenue, reducing costs, and improving overall financial performance. It also includes a discussion of the risks associated with the company's financial position and the steps being taken to mitigate these risks.

5. The fifth part of the document provides a summary of the key findings of the financial analysis and a conclusion regarding the company's financial health. It also includes a list of recommendations for improving the company's financial performance and a discussion of the next steps to be taken.

759b. Hermit Thrush—*Hylocichla guttata pallasi* (Cabanis). Common M.; scarce S. R. locally (Essex, Worcester, Plymouth, Barnstable, and Dukes Cos.); casual in winter. April 1) 8 - May 5 (11; summer; Sept. 23) Oct. 5 - Nov. 15 (30. Dry woodland undergrowth. Nest on ground. Eggs, June 14.

761. Robin—*Planesticus migratorius migratorius* (Linné). Abundant M. and S. R.; local W. R. on or near coast. Mar. 8 - Nov. 23; winter. Everywhere, except deep woods in breeding season. Nest in trees, buildings, sometimes on ground. Eggs, April 25 - July 25 (Oct.).

763. Varied Thrush—*Ixoreus naevius* (Gmelin). Accidental from Pacific Coast. Ipswich, Dec.

765a. Greenland Wheatear—*Saxicola œnánthe leucórhoa* (Gmelin). Accidental V., probably as a M., from far North. Seen at Pigeon Cove, Sept. 17, 1910, by C. R. Lamb,—Auk, April, 1912.

766. Bluebird—*Sialia sialis sialis* (Linné). Common M. and S. R., rare in W. Feb.) Mar. 1 - Nov. 20 (Dec. 4. Orchards, woodland edges, and trees in open country. Nest in tree-cavities, bird-boxes, etc. Eggs, April 15 - June 5.

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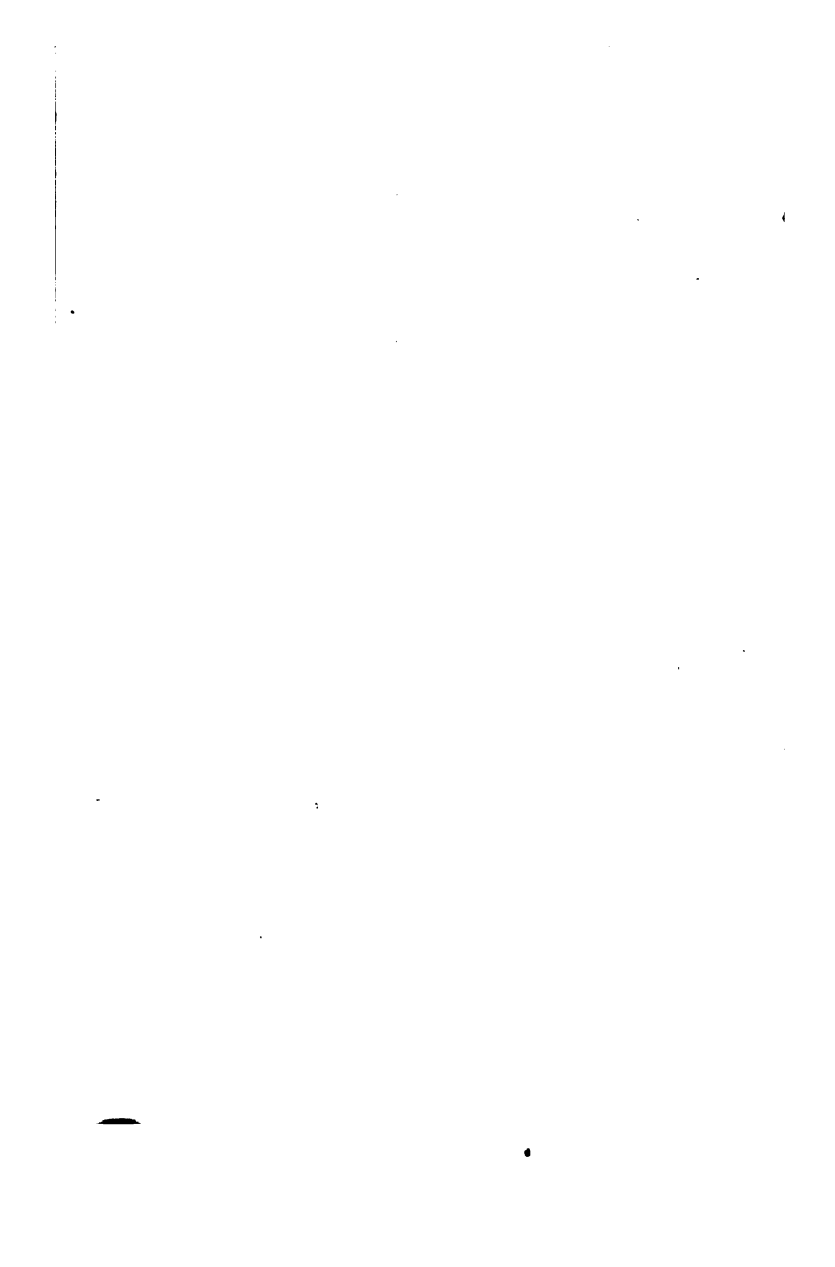
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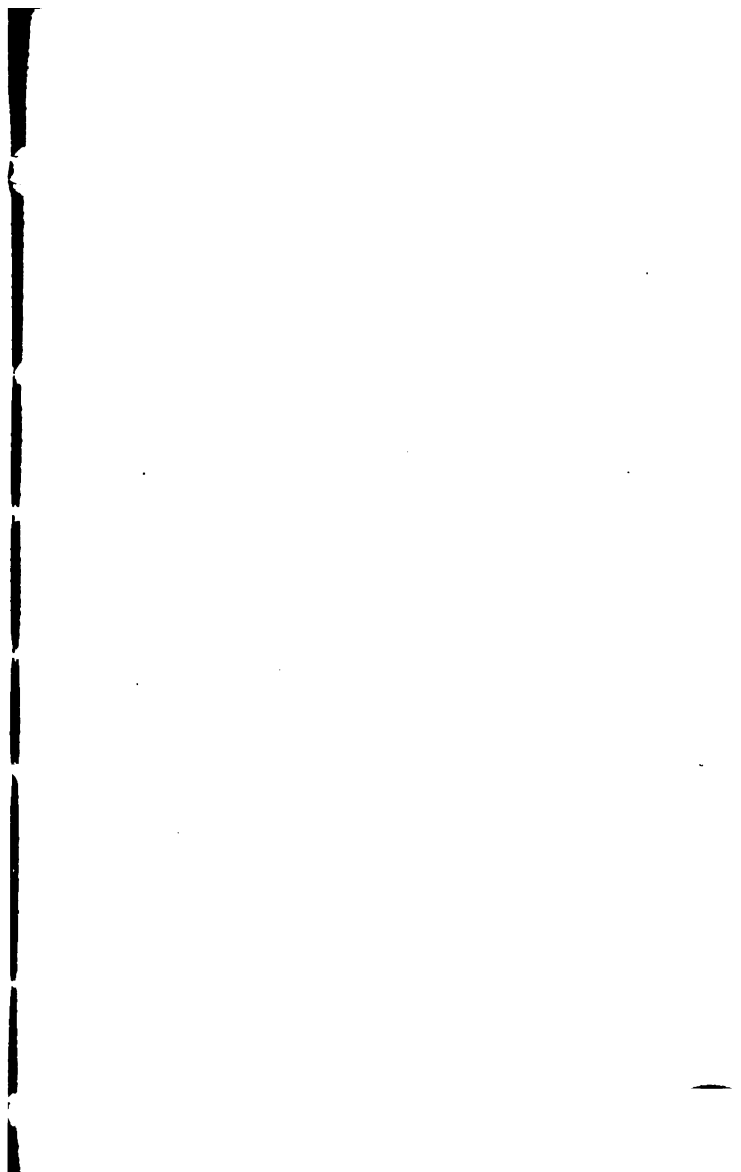
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Seasonal Charts

(For explanation see introduction)

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| Grebes | 2 | Holboëll's Grebe. | | | |
| | 3 | Horned Grebe | | | |
| | 6 | Pied-Billed Grebe | - | - - - | |
| Loons | 7 | Loon | | | |
| | 11 | Red-throated Loon. | | | |
| | 13 | Puffin. | | | - |
| Auks, Murres
& Puffins. | 27 | Black Guillemot | | | |
| | 31 | Brünnichs Murre | | | |
| | 32 | Razor-billed Auk. | | - - - | - |
| | 34 | Dovekie. | | | |
| Skuas &
Jaegers | 35 | Skua. | | | |
| | 36 | Pomarine Jaeger. | | | |
| | 37 | Parasitic Jaeger | - | - | |
| | 38 | Long-Tailed Jaeger | | | |
| Gulls &
Terns | 40 | Kittiwake. | | | |
| | 42 | Glaucous Gull | | | |
| | 43 | Iceland Gull | | | |
| | 45 | Kumlien's Gull. | | | |
| | 47 | Great Black-backed Gull. | | | |
| | 51 | Herring Gull. | | | |
| | 54 | Ring-billed Gull | ? | ? | |
| | 58 | Laughing Gull | | | |
| | 60 | Bonaparte's Gull. | - | - - - | |
| | 64 | Caspian Tern | | | |
| | 69 | Forster's Tern | | | |
| | 70 | Common Tern | - | - - - | - |
| | 71 | Arctic Tern. | | | |
| Skimmers | 72 | Roseate Tern | | | |
| | 74 | Least Tern. | | | |
| | 77 | Black Tern. | | | |
| | 80 | Black Skimmer | | | |
| Fulmars,
Shearwaters,
& Petrels | 86 | Fulmar | - | - - - | |
| | 88 | Cory's Shearwater. | | | |
| | 89 | Greater Shearwater | | | |
| | 95 | Sooty Shearwater | | | |
| | 106 | Leach's Petrel | | | |
| Gannets | 109 | Wilson's Petrel. | | | |
| | 117 | Gannet. | | | |
| Cormorants | 119 | Cormorant. | - | - - - | - |
| | 120 | Double-crested Cormorant. | | | |
| | 129 | Merganser | | | |
| Ducks, Geese
& Swans | 130 | Red-breasted Merganser | | | |
| | 131 | Hooded Merganser | | | |
| | 132 | Mallard | - | - - - | - |
| | 133 | Black Duck | | | |
| | 135 | Gadwall | | | |
| | 137 | Baldpate | - | - - - | - |
| | 139 | Green-winged Teal. | | | |
| | 140 | Blue-winged Teal | | | |
| | 142 | Shoveller | | | |

[illegible]

| | No | Name | Jan | Feb | |
|---|------|---------------------------|-----|-----|---|
| Ducks, Geese
& Swans,
(continued) | 143 | Pintail | | | |
| | 144 | Wood Duck | - | - | - |
| | 146 | Red head | - | - | - |
| | 147 | Canvas-back | - | - | - |
| | 148 | Scaup Duck | - | - | - |
| | 149 | Lesser Scaup Duck | - | - | - |
| | 150 | Ring-necked Duck | | | |
| | 151 | Golden-eye | | | |
| | 152 | Barrow's Golden-eye | - | - | - |
| | 153 | Buffle-head | - | - | - |
| | 154 | Old-squaw | | | |
| | 155 | Harlequin Duck | - | - | - |
| | 159 | Northern Eider | | | |
| | 160 | Eider | | | |
| | 162 | King Eider | | | |
| | 163 | Scoter | | | |
| | 165 | White-winged Scoter | | | |
| | 166 | Surf Scoter | | | |
| | 167 | Ruddy Duck | - | | |
| | 172 | Canada Goose | | | |
| Hérons | 173a | Brant. | - | - | - |
| | 180 | Whistling Swan. | - | - | - |
| | 190 | Bittern | - | | |
| | 191 | Least Bittern | | | |
| | 194 | Great Blue Heron. | | | |
| | 196 | Egret. | | | |
| | 201 | Green Heron | | | |
| Rails, etc | 202 | Black-crowned Night Heron | - | - | - |
| | 212 | Virginia Rail | - | | |
| | 214 | Sora | | | |
| | 215 | Yellow Rail | | | |
| | 216 | Black Rail | | | |
| Phalaropes. | 219 | Florida Gallinule | | | |
| | 221 | Coot. | - | - | - |
| | 222 | Red Phalarope | | | |
| Sandpipers, etc. | 223 | Northern Phalarope | | | |
| | 228 | Woodcock | - | - | - |
| | 230 | Wilson's Snipe | - | - | - |
| | 231 | Dowitcher | | | |
| | 233 | Stilt Sandpiper | | | |
| | 234 | Knot. | - | - | - |
| | 235 | Purple Sandpiper | | | |
| | 239 | Pectoral Sandpiper | | | |
| | 240 | White-rumped Sandpiper. | | | |
| | 241 | Baird's Sandpiper | | | |
| | 242 | Least Sandpiper. | | | |
| | 243a | Red-backed Sandpiper. | | | |
| | 246 | Semipalmated Sandpiper | | | |
| | 247 | Western Sandpiper. | | | |
| | 248 | Sanderling. | - | - | - |

[illegible]

| | No. | Name | Jan. | Feb. |
|---------------------------------|--------|--------------------------|------|------|
| Sandpipers, etc.
(continued) | 249 | Marbled Godwit. | | |
| | 251 | Hudsonian Godwit. | | |
| | 254 | Greater Yellowlegs. | | |
| | 255 | Yellowlegs | | |
| | 256 | Solitary Sandpiper. | | |
| | 258 | Willet. | | |
| | 261 | Upland Plover. | | |
| | 262 | Buff-breasted Sandpiper. | | |
| | 263 | Spotted Sandpiper | | |
| | 265 | Hudsonian Curlew. | | |
| | 266 | Eskimo Curlew. | | |
| Plovers | 270 | Black-bellied Plover. | | |
| | 272 | Golden Plover. | | |
| | 273 | Killdeer. | - | - |
| | 274 | Semipalmated Plover | | |
| Turnstones | 277 | Piping Plover | | |
| | 283a | Ruddy Turnstone | | |
| Grouse | 289 | Bob-white | | |
| | 300 | Ruffed Grouse | | |
| | 306 | Heath Hen | | |
| Pigeons. | (306r) | Ring-necked Pheasant | | |
| | 316 | Mourning Dove. | - | - |
| | (323r) | Rock Dove | - | - |
| Hawks & Eagles | 331 | Marsh Hawk | - | - |
| | 332 | Sharp-shinned Hawk. | - | - |
| | 333 | Cooper's Hawk. | - | - |
| | 334 | Goshawk | - | - |
| | 337 | Red-tailed Hawk | | |
| | 339 | Red-shouldered Hawk | | |
| | 343 | Broad-winged Hawk | | |
| | 347a | Rough-legged Hawk | - | - |
| | 349 | Golden Eagle | - | - |
| | 352 | Bald Eagle | - | - |
| | 356a | Duck Hawk | - | - |
| | 357 | Pigeon Hawk | - | - |
| Ospreys | 360 | Sparrow Hawk | - | - |
| | 364 | Osprey | | |
| | 366 | Long-eared Owl. | | |
| Owls | 367 | Short-eared Owl | - | - |
| | 368 | Barred Owl | | |
| | 372 | Saw-whet Owl. | | |
| | 373 | Screech Owl | | |
| | 375 | Great Horned Owl. | | |
| | 376 | Snowy Owl | | |
| Cuckoos | 387 | Yellow-billed Cuckoo. | | |
| | 388 | Black-billed Cuckoo. | | |
| Kingfishers | 390 | Belted Kingfisher | - | - |

[illegible]

| | No | Name | Jan. | Feb. |
|-------------------------------------|--------|------------------------------|------|------|
| Woodpeckers | 393 | Hairy Woodpecker. | - | - |
| | 394c | Downy Woodpecker. | - | - |
| | 400 | Arctic Three-toed Woodpecker | - | - |
| | 402 | Yellow-bellied Sapsucker. | - | - |
| | 406 | Red-headed Woodpecker. | - | - |
| Goatsuckers | 412 | Northern Flicker | | |
| | 417 | Whip-poor-will. | | |
| Swifts | 420 | Nighthawk | | |
| Hummingbirds | 423 | Chimney Swift | | |
| | 428 | Ruby-throated Hummingbird. | | |
| Flycatchers | 444 | Kingbird | | |
| | 452 | Crested Flycatcher | | |
| | 456 | Phoebe | | - |
| | 459 | Olive-sided Flycatcher | | |
| | 461 | Wood Pewee | | |
| | 463 | Yellow-bellied Flycatcher | | |
| | 466a | Alder Flycatcher. | | |
| Larks | 467 | Least Flycatcher | | |
| | 474 | Horned Lark | | |
| Crows & Jays | 474b | Prairie Horned Lark | | |
| | 477 | Blue Jay | | |
| Blackbirds
& Orioles | 488 | Crow | | |
| | 494 | Bobolink | | |
| | 495 | Cowbird | - | - |
| | 498 | Red-winged Blackbird | - | - |
| | 501 | Meadowlark | - | - |
| | 506 | Orchard Oriole | | |
| | 507 | Baltimore Oriole | | |
| | 509 | Rusty Blackbird | - | - |
| | 511 | Purple Grackle | - | - |
| | 511b | Bronzed Grackle | - | - |
| Sparrows,
Finches
& Buntings. | 514 | Evening Grosbeak | - | - |
| | 515 | Pine Grosbeak | - | - |
| | 517 | Purple Finch | - | - |
| | (517+) | House Sparrow | | |
| | 521 | Crossbill | - | - |
| | 522 | White-winged Crossbill | - | - |
| | 527a | Hoary Redpoll | - | - |
| | 528 | Redpoll | - | - |
| | 528b | Greater Redpoll | - | - |
| | 529 | Goldfinch | | |
| | 533 | Pine Siskin | - | - |
| | 534 | Snow Bunting. | | |
| | 536 | Lapland Longspur | - | - |
| | 540 | Vesper Sparrow | | |
| | 541 | Ipswich Sparrow | | |
| | 542a | Savannah Sparrow. | - | - |
| | 546 | Grasshopper Sparrow. | | |
| | 547 | Henslow's Sparrow | | |
| | 549 | Sharp-tailed Sparrow | - | - |
| | 549.i | Nelson's Sparrow. | - | - |

[illegible]

| | No | Name | Jan | | Feb | |
|--|--------|------------------------------|-----|---|-----|---|
| Sparrows,
Finches &
Buntings,
(continued) | 549.1a | Acadian Sharp-tailed Sparrow | | | | |
| | 550 | Seaside Sparrow | - | - | - | - |
| | 554 | White-crowned Sparrow | | | | |
| | 558 | White-throated Sparrow | - | - | - | - |
| | 559 | Tree Sparrow | | | | |
| | 560 | Chipping Sparrow | | | | |
| | 563 | Field Sparrow | - | - | - | - |
| | 567 | Slate-Colored Junco | | | | |
| | 581 | Song Sparrow | - | - | - | - |
| | 583 | Lincoln's Sparrow | | | | |
| | 584 | Swamp Sparrow | - | - | - | - |
| | 585 | Fox Sparrow | - | - | - | - |
| | 587 | Towhee | - | - | - | - |
| | 593 | Cardinal | - | - | - | - |
| | 595 | Rose-breasted Grosbeak | | | | |
| Tanagers | 598 | Indigo Bunting | | | | |
| | 608 | Scarlet Tanager | | | | |
| Swallows | 611 | Purple Martin | | | | |
| | 612 | Cliff Swallow | | | | |
| | 613 | Barn Swallow | | | | |
| | 614 | Tree Swallow | | | | |
| Waxwings | 616 | Bank Swallow | | | | |
| | 619 | Cedar Waxwing | - | - | - | - |
| Shrikes | 621 | Northern Shrike | - | - | - | - |
| | 622e | Migrant Shrike | - | - | - | - |
| Vireos | 624 | Red-eyed Vireo | | | | |
| | 626 | Philadelphia Vireo | | | | |
| | 627 | Warbling Vireo | | | | |
| | 628 | Yellow-throated Vireo | | | | |
| | 629 | Blue-headed Vireo | | | | |
| | 631 | White-eyed Vireo | | | | |
| | 636 | Black & White Warbler | | | | |
| | 641 | Blue-winged Warbler | | | | |
| | 642 | Golden-winged Warbler | | | | |
| | 645 | Nashville Warbler | | | | |
| Wood Warblers. | 647 | Tennessee Warbler | | | | |
| | 648a | Northern Parula Warbler | | | | |
| | 650 | Cape May Warbler | | | | |
| | 652 | Yellow Warbler | | | | |
| | 654 | Black-throated Blue Warbler | | | | |
| | 655 | Myrtle Warbler | - | - | - | - |
| | 657 | Magnolia Warbler | | | | |
| | 659 | Chestnut-sided Warbler | | | | |
| | 660 | Bay-breasted Warbler | | | | |
| | 661 | Black-poll Warbler | | | | |
| | 662 | Blackburnian Warbler | | | | |
| | 667 | Black-throated Green Warbler | | | | |
| | 671 | Pine Warbler | | | | |
| | 672 | Palm Warbler | | | | |
| | 672a | Yellow Palm Warbler | | | | |

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